The
CHEMIST AND DRUGGIST
for RETAILER - WHOLESALER - MANUFACTURER

OCTOBER 2, 1948

Barbiturates

Short Acting . . 'SECONAL SODIUM' brand Sodium propyl-methyl-carbinyl allyl barbiturate

Moderate Duration . . 'SODIUM AMYTAL' brand Sodium iso-amyl ethyl barbiturate

Longer Acting . . 'AMYTAL' brand Iso-amyl ethyl barbituric acid

Supplied in bottles of 40 and 500

Obtainable from your usual wholesaler

Lilly
TRADE MARK

ELI LILLY & COMPANY LIMITED, BASINGSTOKE, HANTS.

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Something new in vitamin preparations . . . . .

ABIDEC Drops

A NON-OILY MULTIVITAMIN SOLUTION

'Abidec' Drops present six essential vitamins, both "water-soluble" and "fat-soluble", in the same clear, stable, non-oily and non-alcoholic solution.

Pharmacists will at once recognize in this preparation the fulfilment of a long-felt need. 'Abidec' Drops can be added to the milk in a baby's bottle, or to any food without altering appreciably either taste or appearance. The drops may also be taken directly on the tongue.

Here is a line that will be prescribed freely by doctors and welcomed by your customers.

Available in 10 c.c. vials with droppers. Minimum Retail Price 5/6

'Abidec' Drops contain in each 10 minim. dose :

Vitamin A	-	5000 International units
Vitamin D	-	1000 International units
Vitamin B_1		(Aneurine hydrochloride) 1 mgm.
Vitamin B_2	-	(Riboflavine) 0·4 mgm.
Nicotinamide	- - - -	5 mgm.
Vitamin C	- - - -	25 mgm.

PARKE, DAVIS & CO., HOUNSLOW MIDDLESEX

Inc. U.S.A., Liability Ltd.

Show 'Elasto'—It Sells on Sight!

It's advertised as a Chemist's line

PLEASE NOTE
22/- Pack
(one bottle free)
AGAIN AVAILABLE
see prices below

1/6 D. PROFIT ON EVERY SALE!

'ELASTO' Advertising is Nation-wide and Consistent. An ever-increasing demand for this product is being created at your very door; a slight effort on your part will bring this new and profitable business to your counter. A showcard or a few 'Elasto' cartons displayed in your window will bring most gratifying results. You can recommend 'Elasto' with confidence for all circulatory disorders including Varicose Veins, Bad Leg, Skin Troubles, Rheumatism and poor General Health. A tablet Remedy, easy to handle and reliable.

Recommend 'Elasto'—and a satisfied customer will recommend You!

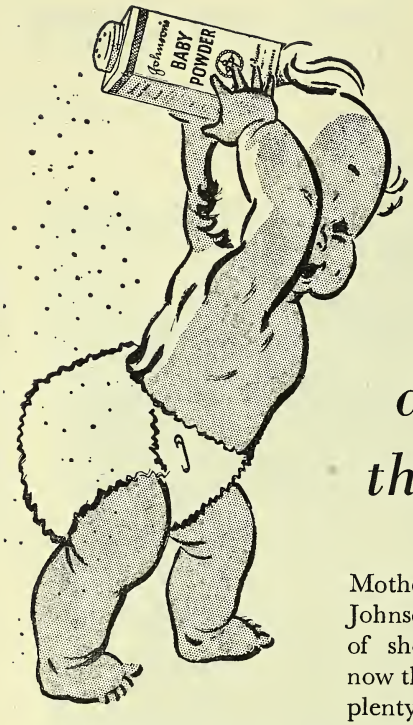
★ *RETAIL (Including Tax)*
5/6 per bottle (one month's supply)
22/- five bottles (Including one free)

P.A.T.A.

WHOLESALE (Including Tax)
48/- per dozen
192/- per dozen

The NEW ERA TREATMENT CO., LTD.
CECIL HOUSE, HOLBORN VIADUCT, LONDON, E.C.1

A



Now mothers can pick and choose again . . .

display the powder they know and trust

Mothers who were deprived of mist-fine Johnson's Baby Powder during the years of shortage are eager to return to it now they know there's plenty available again.

So give Johnson's Baby Powder a big display on your counter and make sure you have a good supply in stock — you'll find there's a brisk demand for the powder people have known and trusted for over 50 years.

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1/6
A TIN

Johnson's BABY POWDER

the kindest powder in the world

JOHNSON & JOHNSON (GT. BRITAIN) LTD., SLOUGH AND GARGRAVE

CROOKES counter lines

CROOKES COD LIVER OIL EMULSION

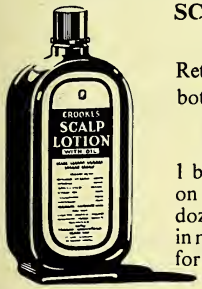
Retails @ 3/- per 8-oz. bottle. Exempt P. Tax.

BONUS

1 bottle to the dozen on minimum of 3 dozen. (Ask for showcard E.2)

On Bonus Terms

In addition to Crookes Halibut Oil and Vitamin Quota the five popular winter counter lines shown here are available on Bonus Terms until March. Order early!



CROOKES SCALP LOTION

(Plain or Oily)

Retails @ 3/1 per 6-oz. bottle incl. P. Tax.

BONUS

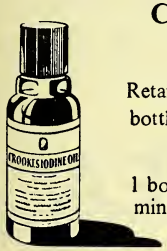
1 bottle to the dozen on minimum of 3 dozen. May be taken in mixed dozens. (Ask for showcard S.L.2)

CROOKES IODINE AND BLACKCURRANT PASTILLES

Box retails @ 1/11 including P. Tax.

BONUS

1 box per dozen on minimum of 3 dozen.



CROOKES IODINE OIL

Retails @ 1/10 per 1-oz. bottle including P. Tax.

BONUS

1 bottle to the dozen on minimum of 3 dozen.

HALYCITROL

Retails @ 2/4 per 4-oz. bottle. Exempt P. Tax.

BONUS

1 bottle on each dozen.

THE CROOKES LABORATORIES LIMITED
PARK ROYAL LONDON N.W.10

To departmental stores in the United Kingdom

HERTS PHARMACEUTICALS, LTD.

manufacturers of Nivea Creme and other Nivea products are pleased to announce that they have appointed

MESSRS.

STOWER & OAKLEY

LTD.

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LONDON, N.W.1 *Tel. Paddington 2172, 6177*

as Sole Distributors of these products to Departmental Stores in the United Kingdom.

Chemists will be supplied as in the past either direct from the manufacturers or through their agents Messrs. Thos. Christy & Co. Ltd., Farnham, Surrey.

Skin needs NIVEA

(1)

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(continued overleaf)

a new and effective

urinary antiseptic

'MANDAMINE' is a *chemical* combination of methenamine (hexamine) and mandelic acid, that is now recognised as one of the most efficient urinary antiseptics. It is virtually non-toxic in therapeutic dosage and convenient to use; accessory medication is rarely required.

'Mandamine' is issued for prescription in bottles of 60 enteric-coated tablets each containing 0.25 g. ($3\frac{3}{4}$ gr.) methenamine mandelate. 'Mandamine' is the registered trade mark of Nepera Chemical Co. Inc., New York, to designate its brand of methenamine mandelate.

Stocks are now obtainable from your usual supplier.

Medical literature is available to pharmacists on request.

● *Retail Price: Bottle of 60 Tablets, 7/1d., incl. Purchase Tax. Trade Price: 51/- per dozen, plus 17/- Purchase Tax.*

Mandamine

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M.T.I.

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A range of pharmaceutical and fine chemicals is available for prompt delivery at special terms to home and overseas purchasers in bulk.

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B CHEM/T/I

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IT IMPLIES THE GUARANTEE OF THE MANUFACTURERS

Ucal is not a coined name, branding the particular product of a particular manufacturer.

It is the initial letters of the United Chemists Association Limited, a company of unquestioned integrity, manufacturing products acknowledged to be of the highest standards.

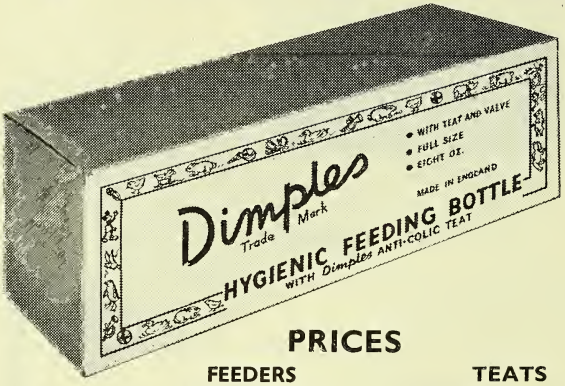
UCAL was founded to assist the private Pharmacist to meet the competition of Combines heavily financed by public subscription.

UCAL products can only be purchased from the private Pharmacist and are not sold by Combines or Co-operative Societies.

It is a misfortune that the trading name, United Chemists Association Limited, is so long, but it is good fortune that the initials make the short and pleasant word 'UCAL'; a word that, through the practical experience of years, has come to be accepted as a guarantee of both the products themselves and the pharmacists who sell them.

UNITED CHEMISTS ASSOCIATION LIMITED CHELTENHAM

GOOD TO DISPLAY . . . GOOD TO SELL



The Dimples Feeding Bottle is not only a good quality article. It is a good quality article well packed.

The buff and blue cartons of both Feeders and Teats will give you an attractive display . . . and quick sales.

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FEEDERS

	Per Doz. 8 oz.	Per Doz. 4 oz.
Double-Ended	9/-	7/6
No. 1 Upright	8/-	7/6

TEATS

Per Doz.	Per Gross
2/-	21/-

Twelve Teat Cartons in Display Outer

Special Discount of 5 per cent. on gross lots assorted.

★ All orders carriage paid in free packages.

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Magtriz Tablets are an effective combination of Magnesium Trisilicate and Magnesium Hydroxide, and provide prompt relief and prolonged control in all cases of Hyperchlorhydria as recommended by the Medical Profession.

MAGTRIZ

DIGESTIVE TABLETS

2 sizes, 7½d. and 1/6d.
Trade 4/- and 10/- per doz. plus P.T.
Both sizes packed in attractive outers.
Small size 2 dozen. Large size 1 dozen.

PAT. A

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From a Battersea garden in 1859 came QUININE *and its salts*

Although cinchona bark itself was in use in Europe 300 years ago and crude concentrates of the active principle had been made, it was not until 1820 that the alkaloids quinine and cinchonine were first isolated by Pelletier and Caventou, who are so well-known for their work on the alkaloids generally.

In 1859, Thomas Whiffen commenced to prepare alkaloids in a factory at the bottom of the large garden of his house at Battersea, and quinine and its salts were among the first of his manufactures. No doubt that was because he had already several years' experience of the preparation of these compounds whilst working with Edward Herring and Jacob Hulle in the Borough, London, S.E. The Battersea business expanded greatly with the years and the staff became experts at assessing the value of the many kinds of cinchona bark; from inspection of a small quill they could tell at once the species, country and approximate yield of quinine.

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LOZENGES. PASTILLES. TABLETS.

IN BULK and ATTRACTIVE PACKS

DELIVERIES. The position is now much improved. Although we are producing to our full capacity we still have to take orders in rotation and are making every effort to maintain an equitable distribution of our PRODUCTS.

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For years there has been a big demand for this old-established, well-known remedy. Now that we have embarked on advertising in National and Women's publications the demand will be greater than ever. Supplies are a little easier so be sure you get your share.

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A NEW OIL-IN-WATER EMULSIFYING WAX

A stearyl alcohol of enhanced polar properties containing no anionic auxiliary emulsifier of the soap or sulphonated/sulphated fatty alcohol type. Stable to high temperatures itself, its emulsions do not alter in pH value on autoclaving.

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TONALIX **TONIC RESTORATIVE**
Specially formulated to assist body tone generally.

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MERITOR BABY POWDER

IN NEW COLOURFUL TINS AND DISPLAY UNIT

We introduce another addition to the MERITOR SERIES *of Chemists' Sundries—*

MERITOR BABY POWDER

Unsurpassed for
QUALITY
PRESENTATION
& PROFIT

Note these features:—

THE POWDER — Smooth, delicately perfumed, antiseptic and soothing.

THE TIN — Round, full $3\frac{1}{2}$-oz. capacity. Attractive design of Pink, Blue and Cream with nursery motif.

THE DISPLAY UNIT — Strong card with printing to match the tin. Holds 3 tins, occupies only $7 \times 2\frac{1}{4}$ inches, one unit with a dozen tins.

THE PRICE — Allows you to retail at a low figure and take full profit.

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S. MAW, SON & SONS, LTD. : BARNET : HERTS

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from Dalmas of Leicester

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IN SPITE of the heavy demand from doctors and hospitals, Dalmas, the original plastic first-aid dressing, is now in much freer supply. You are therefore invited to place your next order now for immediate delivery. Remember that Dalmas is waterproof, washable, grease-proof and acid-proof. It never frays or curls up at the edges, so can't catch in clothes. It is the first and best dressing of its kind in the world.

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- **DALMAS P.P.C. HOSPITAL CREAM** for cuts, burns, abrasions, ulcers. Germ-destroying, quick-healing, medicative. Contains Brilliant Green, Crystal Violet, 5-Aminoacridine on vanishing cream base. Non-staining, easily washes off. Large dispenser tubes 2/6.

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London Depot, 140-142 St. John St., E.C.1. (Clerkenwell 3399)
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Selling the truth

THE Medical profession is giving yeast its true status as an essential source of Vitamin B and proteins—as a *food* and not a mere pick-me-up. Yestamin advertising helps to spread this truth and the nation-wide sales of Yestamin show that daily yeast is recognised as an important contribution to the health value of a restricted national diet.

In Bottles	*to retail at*	*Trade Prices*
100 TABLETS	1/6	12/3 PER DOZ.
300 TABLETS	4/-	33/- PER DOZ.

Less 5% Cash in 14 days

Vitamin B.1 ..... 2.10 *mgms. per oz.*
Riboflavin (B.2) ..... 1.45 *mgms. per oz.*
Niacin ..... 9.50 *mgms. per oz.*

Yestamin DAILY YEAST

THE ENGLISH GRAINS CO. LTD. BURTON-ON-TRENT

Richard Daniel & Son LTD

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SUNDRIES DRUGS
TABLETS & PILLS

FOR CHEMISTS

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INHALATION THERAPY

3 MAIN INDICATIONS FOR ITS USE

BRONCHITIS	Alleviates irritating coughs and by liquifying phlegm facilitates and lessens expectoration.
CONGESTIVE CATARRHS	Relieves catarrhs at the seat of the trouble; contracts the capillary blood-vessels checking discharge.
HAY FEVER	Rapid relief is obtained, sneezing arrested and pain and fullness of the head quickly reduced.

NOTE : MENTHOL TURIOPIN OIL furnishes an excellent supplementary treatment to the RIDDOBRON Therapy for Asthma and Allied complaints.

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1 doz. 4-oz. Brilliantine (fancy bottle)
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1 doz. 4-oz. Cologne & Lavender (6 of each, fancy bottle)
1 doz. 2-oz. Cologne & Lavender (6 of each, fancy bottle)
1 doz. Lipsticks in enamel spiral cases (4 shades)
1 doz. Lipstick Refills (4 shades)
1 doz. " Request " Talcum Powder, perfumed. 4-oz.
1 doz " My Secret " 2-dram Perfumes (12 in box)
1 doz. " My Secret " 1-oz. Perfumes (French bottle)
1 doz. " Fascination " Face Powder, assorted shades
1 doz. Solid Brilliantine
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6 doz. " Request " Shampoos
3 doz. " Maestro " GIANT shaving Sticks

SEND REMIT[illegible]r

ESMOREA Chemical Products Ltd., 106 Regent St., London, W.

Protection against colds?

" . . . . . ESOBACTULIN is one of the most successful lines I've handled. The course consisting of six capsules taken over five days gives most people three months' immunity from colds.

Customers come in for a course at this time of the year and again in December, just when their resistance is lowest and colds are most prevalent."

8/3 per course inc. P. Tax 33⅓% Trade discount

Supplied through YOUR Wholesaler

Bonus Offer—*13 to the dozen on orders of 1 dozen and over.*

A product of

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UPPER RICHMOND ROAD, LONDON, S.W.15

ESOBACTULIN

protection against colds

The remarkable success of the "Craigway" Corn Plane is due to the new principle involved. The angle of the blade is the secret. This new and profitable line only needs showing to SELL!

Individually packed in cartons

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RETAIL **2/3** *PRICE*

15/4 per doz. plus Purchase Tax

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Phone: Wallington 3694

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Malt Extract with added Natural Vitamins

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Leyland Mills, Wigan. *London Dept.* 19 Brookside Rd. N

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Clients' own material operated if desired. Reasonable estimates.

The DALES ASPIRIN AND TABLETING CO. Barrows Lane, STEETON, Yorks.

Alka-Seltzer

smashes all records!

Alka-Seltzer's new and unique advertising campaign featuring the above illustrations and others, has captured public interest and is creating bumper sales. All pre-war records have been broken. More and more people are discovering that Alka-Seltzer brings extra-fast relief from headaches, indigestion and everyday muscular aches and pains. And now, with winter approaching, many thousands will find that Alka-Seltzer's combination of aspirin, sodium bicarbonate and citric acid brings the same extra-fast relief from the discomfort and misery of colds.

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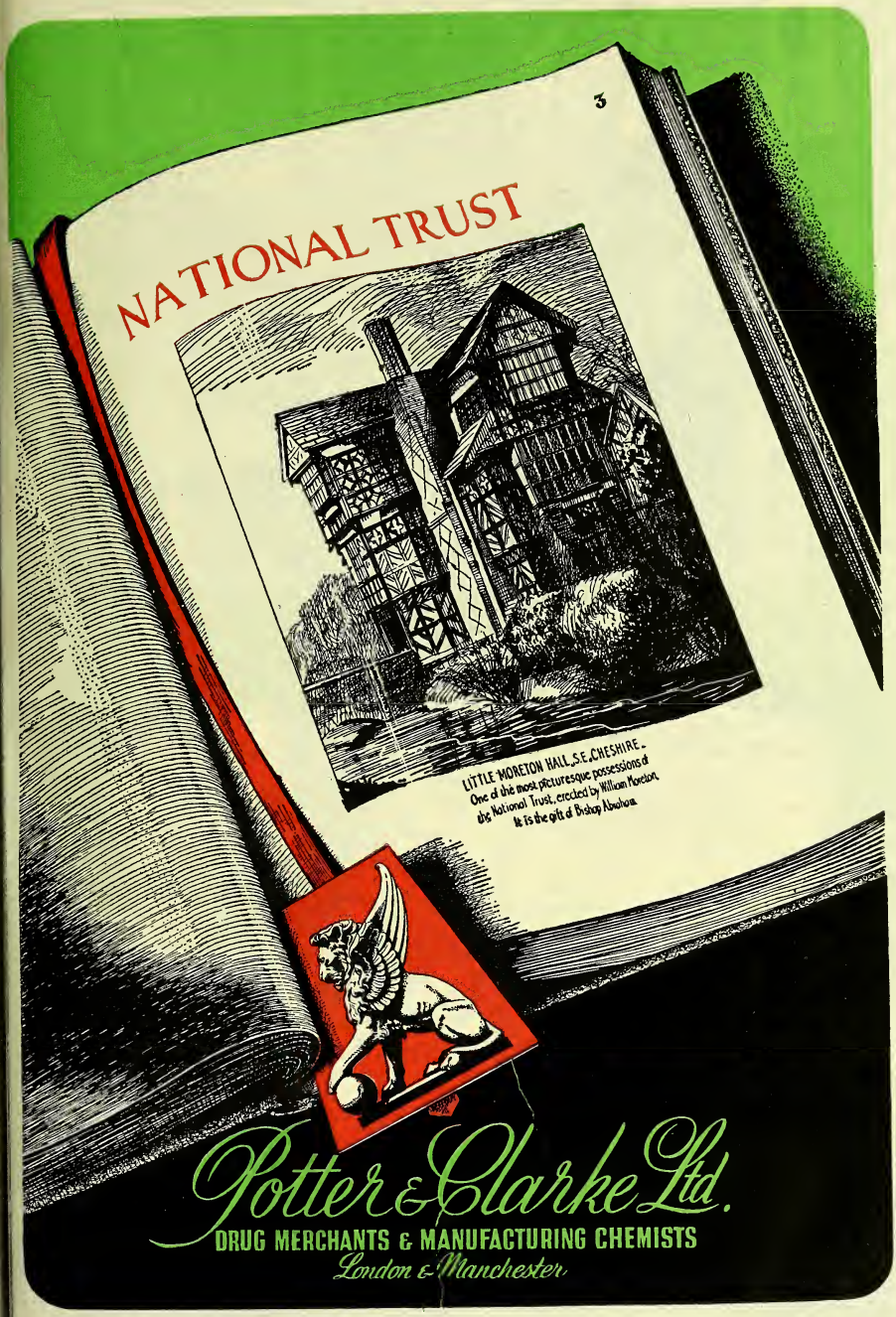
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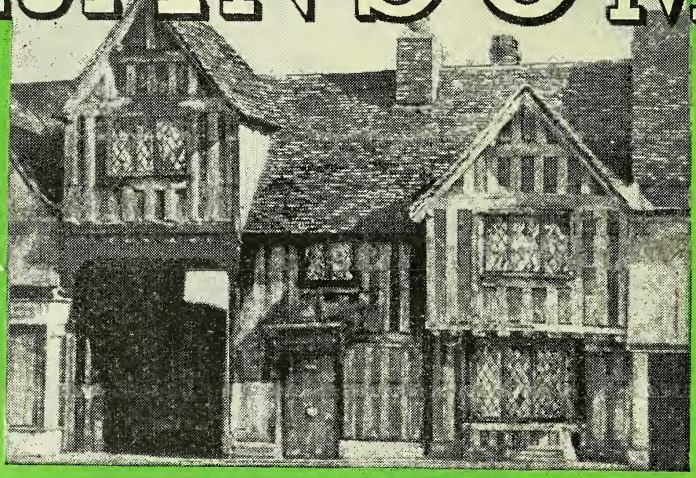

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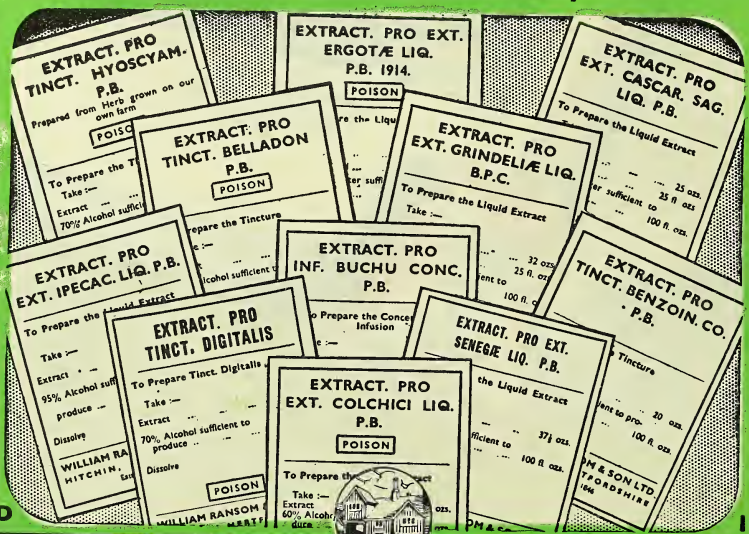

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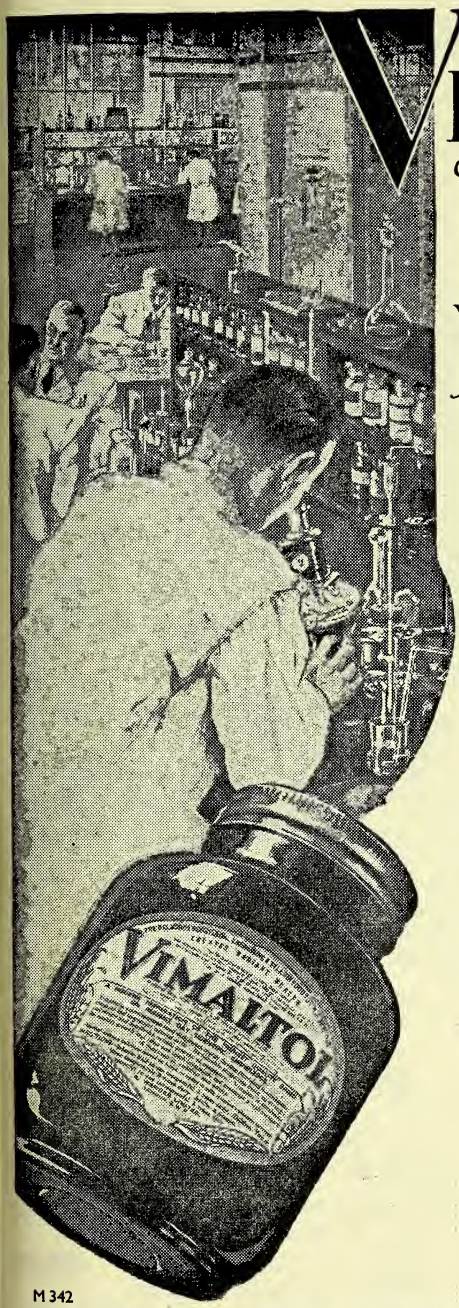

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OCTOBER 2, 1948
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NEWS OF THE WEEK

Rural Dispensing in Cumberland.—Some eighteen doctors dispensing in rural areas in Cumberland have asked to be excused this work and the Pharmaceutical Committee is making arrangements with local chemists to take over the work.

Wages in Voluntary Organisations.—A circular recently issued by the Ministry of Health states that the Minister regards it as "essential" that a "fair wages clause" should be included in all agreements which local health authorities may make with voluntary organisations for providing services under N.H.S.

Distribution Census in 1950. — The Board of Trade has made an Order under the Statistics of Trade Act fixing 1950 as the year in which the first full Census of Distribution will be taken. The Census, which will be compulsory, is to be taken early in that year, but in respect of the year 1949. It will involve wholesalers, retailers and other services, such as hairdressers and photographers. The Board of Trade is at present considering the forms to be used in the Census in consultation with an Advisory Committee appointed earlier this year.

Trade Mark Rights in Germany.—By a new Order (S.I. 1948, No. 2086) the Board of Trade has authorised applications for the grant of a patent or the registration of a design or trade mark in Germany. A further Order (S.I. 1948, No. 2088) removes Board of Trade and Custodian control over money and property accruing in consequence of the authorisation.

Dental Exhibition.—At a London Dental Trade Exhibition organised by the Association of Dental Manufacturers and Traders of the United Kingdom and open from September 27 to October 1, a wide range of apparatus and accessories was on show. Among the exhibitors were Amalgamated Dental Products, Ltd. (Kemdex, Kemdent and other proprietary preparations); International Chemical Co., Ltd. (Anadin and Bisodol); Johnson & Johnson (Great Britain), Ltd. (cotton

rolls, throat packs, gauze sponges, dental floss, etc.); and WESTERN DENTAL CO., LTD. (solution tablets, etc.).

Representation of U.K. Firms in Mexico.—The British Embassy in Mexico City is compiling a record of the agency arrangements in Mexico of United Kingdom exporters. Manufacturers and exporters who are not sure that their agency arrangements are known to the British Embassy are asked to send brief particulars of them to the First Secretary (Commercial), British Embassy, San Juan de Letran 21-711 Mexico, D.F. The particulars required are the names of the principals, a brief description of the product or products covered, the name and address of the agent, the territory which he covers and the form of arrangement, e.g., whether exclusive distributorship with representative importing for his own account, or booking orders on a commission basis, or other terms.

LOCAL NEWS

Veterinary Surgeons at Runcorn.—At the conclusion of the recent congress of the National Veterinary Medical Association, at Southport on September 15, some sixty of the congress members visited the Evans Biological Institute, Runcorn, Ches.

Women Pharmacists' Outing. — The Sheffield and Nottingham Branches of the National Association of Women Pharmacists joined in a one-day outing to Baslow, Derbyshire, recently. The afternoon was spent in the grounds and gardens of Chatsworth Park.

Leicestershire Pharmacists' Visit.—A party of pharmacists from Loughborough, Melton Mowbray, and districts visited the headquarters of Evans Medical Supplies Ltd., Speke, Liverpool, recently. Among the sections of the factory which they saw was the recently opened sterile products unit.

Dundee Refresher Course.—A refresher course of about twelve lectures to be held at the Technical College, Dundee, is organised by the local Branch of the Pharmaceutical Society. The lectures, which will commence early in October, will be given by Mr. H. A. Perkin, Ph.C., on Wednesday evenings.

Scottish Dispensing Increases. — In August the number of Insurance prescriptions for medicine issued in Edinburgh was 59,183, against 23,123 during August 1947; in Dundee, 24,869, against 10,737; in Caithness, 2,350, against 595; in Orkney, 1490, against 360; and in Sutherland 1,422, against 373.

Burnley Lecture.—At a recent meetin of the Burnley Branch of the Pharmaceuti cal Society, Dr. I. Frost (Glaxo Laborato ies, Ltd.), gave an address on "Nutritior Vitamins, and Nervous and Mental Dis orders." The lecturer projected a slid (probably, he said, for the first time in pub lic) showing crystals of vitamin B_{12} recentl isolated in the company's laboratories.

N.H.S. in Edinburgh.—At a meeting c the Edinburgh Executive Council, recentl Mr. T. J. Addly, who presided, gave de tails of some of the prescriptions which ha gone to the central checking bureau Whisky, he said, had been prescribed fc one patient, and he understood that th chemist had paid 40s. to a public-house fc a supply. Another prescription include sherry and syrup of orange.

Chemists' Golf at Ashton.—In the ar nual competition for the Kerfoot trophy played by the Manchester Pharmaceutica Golfing Society at Ashton on Septembe 15, Messrs. F. C. Baines and R. Dobson tie (75 each) but, following the rules of th club, the trophy was awarded to M Baines, Mr. Dobson taking second prize Members were entertained to lunch in th staff canteen of Thomas Kerfoot & Co Ltd., before the match.

New Session at Newcastle.—The oper ing meeting of the 1948-49 session of th Newcastle Branch of the Pharmaceutica Society was held on September 23, Mr. A McGuckin presiding. Mr. G. H. M. Gra ham (chairman, National Pharmaceutica Union) invested the chairman with a badg of office provided from the Denniso memorial fund. The annual student priz was awarded to Mr. Mitchell, Pelaw. A address on "Recent Advances in Hæmc tology," illustrated with lantern slides, wa given by Mr. C. Beaven, of Parke, Davi & Co.

London Chemists' Golfing. — Th autumn meeting of the London Chemist Golfing Society was held at Old Fol Manor Golf Club, Hadley Green, Barne recently. Events included a medal com petition for the British and Colonial Phar macist Cup, the winner of which was M G. T. Morson (handicap 10) with a ne score of 72 (two strokes under the boge of the course); and a bogey competitior won by Mr. R. Poole (handicap 10) wit a return of 2 down. Leading scores were *Medal*:—Messrs. G. T. Morson (10) 72

R. Poole (10) 76, B. F. Tisdall (8) 77, E. G. Nice (8) 80, A. W. Daniel (11) 81; *Bogey*:—Messrs. G. T. Morson, all square, R. Poole, 2 down, B. F. Tisdall, 5 down, G. Hankinson, 6 down.

Forensic Medicine Lecture. — At a meeting of the Dartford Branch of the Pharmaceutical Society on September 23, a lecture on "Some Aspects of Forensic Medicine," illustrated by slides, was given by Dr. D. M. Thomson. The speaker explained the duties and powers of a coroner when a death certificate had been issued that recorded an unusual cause of death. Somatic death was defined as complete cessation of circulation and respiration for five minutes. It was followed in one to four hours by molecular death, shown by primary flaccidity. At normal temperatures cooling of the dead body was at the rate of $1\frac{1}{2}°$ to 2° F. per hour. Hypostasis, or blood gravitation, took six to twelve hours. Rigor mortis, caused by acid coagulation of muscle plasma, took four to thirty-six hours. It was accelerated by high, and delayed by low temperatures. Under cold moist conditions hydrogenation of unsaturated fats took place, giving a greasy appearance, known as adipocere. At high temperatures bacterial putrefaction was evident after three days. Methods of embalming by the use of formaline injections delayed putrefaction for several weeks, and cold storage for prolonged periods. Mummification was produced by dry currents of air. It was often difficult to state how long a body had been dead. In early stages the signs already described were used, together with evidence from stomach and bowel contents, and disappearance of blood sugar. Presence of ova from flies, larva and pupa cases, were often of great value. Growth of hair was 0.4 mm. daily, and growth of nails 0.1 mm. daily.

IRISH NEWS

Amphetamine Issued in Error. — The health authorities in Northern Ireland have issued a warning that amphetamine tablets, packed in tubes with barley sugar and malted milk, have been sold as surplus Government stores. It was intended that the amphetamine tablets should have been removed before the tubes were sold by the Ministry of Food.

Pharmaceutical Society of Ireland.—The following changes of address were notified to the Council at its September meeting: Mr. P. A. J. Moran, L.P.S.I., to 187 North Circular Road, Dublin; Mr. Leo J. Manley, L.P.S.I., to the Medical Hall, Balbriggan; Mr. Patrick Joseph McConnell, L.P.S.I., to Brewshill, Navan, co. Meath; Miss C. W. Fullam, M.P.S.I., to 35 Upper Fitzwilliam Street, Dublin; Mr. Patrick Garahy, M.P.S.I., to Slaney Street, Enniscorthy, co. Wexford; Mr. Patrick J. McLaughlin, M.P.S.I., to 6 Bridge Street, Bandon, co. Cork; and Mrs. T. McGoldrick (née Collins), to Eyre Square, Galway.

Gaelic Athletic Club.—Mr. P. C. Cahill (chairman) presided over the annual meeting of the College of Pharmacy Gaelic Athletic Association Club held in Dublin recently. Lieutenant S. Fox (secretary) reported on the activities of the season. Mr. T. O'Keefe (treasurer) reported that the Club's finances were in a healthy state. It was unanimously agreed to adopt the seal of the Pharmaceutical Society of Ireland as the Club's crest, permission having been granted by the Society. The chairman appealed for more support from the general body of pharmacists. Officers elected were Captain, Mr. C. Conefry; Vice-captain, Mr. J. Roche; Committee: Messrs. P. C. Cahill, S. Fox, T. K. O'Keefe, K. Banks, F. J. Gaffney, J. Casserly, B. McWey, J. Murray, and a representative of the Social Club. Messrs. P. H. Fahey and J. D. Tooher were re-elected *Auditors.*

OVERSEAS NEWS

New Drug for Hypertension.—A new drug, 6 - ethoxy - N - methyl - tetra - hydroisoquinoline, claimed to have shown in tests on animals "the most lasting effect of any drug of its kind" in reducing blood pressure, was described to the 114th meeting of the American Chemical Society, held in Washington recently. A report by representatives of several commercial research laboratories stated that doses of 0.2-0.4 mgm. per kilo of body weight "produce profound drops in blood pressure."

New Food Preservative.—A new food preservative for use in the canned fruit juice industry is reported from the College of Pharmacy, University of California. Described as a synthetic chemical analogue of natural vitamin K, it is called K5, and is claimed to protect foods from mould formation. Used in concentrations of 1 in 10,000, the product inhibited the growth of moulds on foodstuffs and, in even lower concentrations, prevented sugar from fermenting.

COMPANY NEWS

Lloyd Lyons, Ltd. (P.C.).—Capital £500. To carry on the business of wholesale or retail chemists, etc. Joshua Lloyd Lyons, director. R.O.: 113 High Holborn, London, W.C.1.

Granville Perfumery, Ltd. (P.C.). — Capital £100. To carry on the business of manufacturers of, and dealers in, perfumes, cosmetics, etc. Reginald W. Thorne and Eric J. Humphries, directors. R.O.: 30 Budge Row, London, E.C.4.

Durazone (Ireland), Ltd. (P.C.).—Registered in Dublin. Capital £1,000. To carry on the business of manufacturers of chemicals, etc. James D. Kiernan, 11 St. Stephen's Green, Dublin, subscriber. First directors are not named.

Landale Chemical Co., Ltd. (P.C.).—Capital £1,200. To carry on the business of manufacturing chemists, etc. William Brookes, Sam Dearden, Nigel V. H. Lord and Jennie D. A. Lord, directors. R.O.: 35 Bank Street, Rawtenstall, Rossendale, Lancs.

Astra Chemicals, Ltd. (P.C.).—Capital £1,000. To carry on the business of manufacturers of, and dealers in, chemicals, drugs and medicines, etc. Arthur R. Baker and Harry A. Hann, directors. R.O.: Astra House, Midsomer Norton, Somerset.

Northwoods Chemists & Opticians, Ltd. (P.C.).—Capital £1,000. To carry on the business of wholesale, retail and dispensing chemists and druggists, opticians, etc. Jesse Creasey, M.P.S., and Grace R. Creasey, directors. R.O.: 57 Loampit Hill, London, S.E.13.

R. O. Band, Ltd. (P.C.).—Capital £200. To carry on the business of manufacturers of, and dealers in, chemicals, dressings and toilet requisites, etc. Sydney Walker and Leslie G. Spencer, directors. R.O.: Cails Buildings, Quayside, Newcastle-on-Tyne.

Horlicks, Ltd.—Mr. Clifford J. Harrison has been appointed a director.

International Sponge Importers, Ltd.—The interim ordinary dividend has been maintained at 3¾ per cent.

Dubarry Perfumery Co., Ltd.—An interim dividend has been announced of 15 per cent.; the corresponding dividend in 1947 was 20 per cent.

Milton Antiseptic, Ltd. — Mr. John Clough, eldest son of the late chairman, Mr. Henry S. Clough, has been appointed chairman.

Imperial Chemical Industries, Ltd.—An interim dividend has been declared of 3 per cent. on the £50,465,116 ordinary stock already issued on July 20, the same as in 1947.

Cow & Gate, Ltd.—A public issue is to be made of 1,000,000 4½ per cent. redeemable cumulative preference shares of £1 each at 21s. per share. An issue is also to be made to ordinary stockholders by way of "rights" of 3,009,482 ordinary 1s. shares at 2s. per share.

Invitation to Tender for Shares.—The Board of Trade invites tenders for the purchase of 29,637 ordinary shares of £1 each, fully paid, in Nitsche & Gunther, British Optical Co., Ltd., Britannia Works, 25 St. Pancras Way, London, N.W.1, and for 12,000 shares of £1 each, fully paid, in St Andrew Mills, Ltd., 34 St. Andrew Road, London E.17. The shares in each company cannot be split and a tender must be for the whole of the shares of a company. Particulars of the special conditions of the sale and tender forms may be obtained from the Administration of Enemy Property Department (Treasury and Board of Trade), T.E.4(A), 32 Warwick Street, Regent Street, London, W.1.

LEGAL REPORT

"Flood of Prescriptions" Defence.—That the offences arose as the result of a decision to cope with a "sudden flood" of prescriptions on the first day of the new Health Service was stated by the defending solicitor at Old Street, London, magistrates' court, September 22, when H. Wolman Pharmacy, Ltd., 76 Brick Lane, E.1, were prosecuted at the instance of the Pharmaceutical Society. There were six summonses for selling, by retail, poisons contained in Part 1 of the Poisons List, 1935, the sales not being effected by or under the supervision of a registered pharmacist. Pleas of "guilty" were entered. The summonses related to codeine in compound codeine tablets; the active principles of digitalis in a medicine; a derivative of barbituric acid in phenobarbitone tablets; and the active principles of digitalis in compound digitalis pills. Imposing fines totalling £50 and ordering payment of a total of £6 6s. costs, the magistrate said: "I think this was rather a flagrant breach of the regulations, well knowing that they were being broken."

BUSINESS CHANGES

Mr. R. H. B. Whitehead, M.P.S., has acquired the pharmacy at The Green, East Rudham, Norfolk, formerly carried on by Mr. S. B. Moss.

Prichard & Constance (Manufacturing), Ltd. have appointed Mr. B. G. Gardner, Dewsbury, their representative in Yorkshire and the Northern counties; and Mr. F. Gittins, Bedfont, their representative in the West London and Home Counties area.

Cat Among Pigeons?—By an error of the compilers of the Classified Telephone Directory, the name of Mr. R. Cargill, M.B., Ch.B., 25 Nevill Road, Bramhall, Stockport, Ches, has been put in the "chemists" section. As a consequence he is receiving trade literature and samples. He requests manufacturers who have been making use of the Directory to delete his name from that section so that no further items are sent.

TOPICAL REFLECTIONS

N.H.S. Pricing Arrangements

In your issue of July 10 I remarked that the terms accepted for contracts under the National Health Service by chemists in England and Wales were not satisfactory, and that probably a short experience of the working of the scheme would suffice to bring about an effort to have them amended. The fulfilment of that forecast is found in the report (p. 396) of the meeting of Pharmaceutical Committee representatives held on September 26. As you point out (p. 409), the final adjustment may, under the present arrangement, result in the gain of chemist A at the expense of chemist B. If this happens, A may continue to gain every time a settlement of accounts is made, and B to lose correspondingly. A further point—one that may not have been raised at the meeting referred to—is that the cost of the scheme, already understood to exceed preliminary estimates by a substantial sum, will undoubtedly tell against panel contractors. The Treasury will sit up and take notice, and panel chemists will possibly have a repetition of the dreary and almost squalid disputes about payment that arose under the first National Health Insurance Act. These considerations strengthen the case for the businesslike plan advanced by the secretary of the National Pharmaceutical Union. Chemists will not object to the work of sorting their N.H.S. prescriptions into five classes when they realise that this procedure will deprive the Ministry of Health of an excuse for delay in pricing and settling accounts. The new proposal of the Pharmaceutical Committee representatives should be acceptable.

Titles and the Public

The editorial article "Titles and Claims" (p. 410), with its American reference, had a twofold interest for me because, before seeing it, I had just been reading an article by an American pharmacist, Mr. James S. Hill, in Vol. XII No. 3 of "The American Journal of Pharmaceutical Education." The article covers a good deal of ground, and only one paragraph of it is closely related to the subject of your comment. The writer there deals trenchantly with the topic of giving the world a true conception of the nature of pharmacy. "We all know," he writes, "that the battle for professional and public recognition has to be fought by the individual pharmacists." By way of illustrating this statement, he mentions that he has recently spoken for forty minutes to "a laymen's group," and that the resulting questions and answers occupied nearly another hour. We cannot all handle audiences so successfully; but those of us who are qualified, and especially those in retail business, can do our best to establish sound relations with the public. One way of doing this is, as you indicate, to exercise care in describing ourselves. My preference is for simplicity. To the generality of people a registered medical practitioner is a doctor and a registered dental surgeon is a dentist. By analogy the word "chemist" best describes a registered pharmacist. It has the sanction and authority of long use, with or without the addition of "druggist" or "pharmacist." In 1597, John de la Bere, of Oxford, referred, in a letter to a nephew, to "your London Chymyst": that is a fairly good warrant for the authenticity of the title.

Unsuccessful Remedies

The "new remedies" mentioned in your retrospect of the year 1898 (p. 415) bring to mind others that have failed to obtain a lasting footing in British materia medica. "Where are the snows of yester year?" The general indexes of the British Pharmaceutical Conference Year-books contain several examples of substances introduced, some unostentatiously and others with a flourish of trumpets, but all destined to a short life as therapeutical agents. The difficulty of naming some of these substances arises from the probability that they are still enjoying popularity in some part or parts of the world, and that the world-wide circulation of THE CHEMIST AND DRUGGIST will bring you correspondence to that effect. Let us, however, look for a minute or two at the lists of articles and preparations formerly official but omitted from the British Pharmacopœias of 1914, 1898 and 1885, taking the books in that order. From the long list (filling nearly two pages) in the 1914 B.P. I select by way of sample ammonii phosphas, antimonium nigrum purificatum, aqua pimentæ, argenti oxidum. Several other "A's," including some from the Indian and Colonial Addendum of 1900, are omitted. The corresponding list of 1898 comprises acidum lacticum dilutum, acidum meconicum, alcohol amylicum, ammonii nitras. The 1885 list of omissions is much shorter.

Xrayser

MARRIAGES

Collis-O'Beirne.—In Rathmines, Dublin, on September 22, Cornelius Collis, M.P.S.I., 346 North Circular Road, Dublin, to Lucy O'Beirne, Boyle, co. Roscommon.

Fyfe-Walker.—At Aberdeen, on September 10, George P. Fyfe, M.P.S., 551 Holburn Street, Aberdeen, to Gladys Walker, Aberdeen.

Withers-Wood.—At Sudbury, Suffolk, on September 20, Arnold Cecil Withers, M.P.S., 45 Rosemary Road, Clacton-on-Sea, to Zoe Mary Wood, M.P.S., 2 Maclise Road, London, W.14.

DEATHS

Brown.—At the Queen Elizabeth Hospital, Birmingham, on September 17, following an eye operation, Mr. Arthur William Brown, M.P.S., aged fifty-eight. Mr. Brown was in business at 100 Ashted Row, Birmingham, for over twenty-five years. During the 1939-45 war he devoted a good deal of time to work with the Wardens' Service and to the Citizens' Advice Bureau. He volunteered and was accepted for Civil Defence work in London during the V1 and V2 attacks.

Davies.—At East Dulwich, on September 7, Mr. Reginald Davies, M.P.S., 22 Marsden Road, London, S.E.15, formerly of Kentish Town, N.W.5. Mr. Davies was for some years in business in Penarth, Glam. He qualified in 1909.

Ife.—In Colchester Hospital, on September 20, Mr. Alfred Edward Ife, M.P.S., High Street, Maldon, and Southminster, Essex, aged fifty-two. Mr. Ife is survived by his widow.

Maddison.—At Sydney, Australia, suddenly, on September 26, Mr. George E. Maddison, a director of Drug Houses of Australia, Ltd., and of Elliotts & Australian Drug Pty., Ltd. Mr. Maddison had just returned to Australia after a business visit to this country.

Robertson.—At 17 Hillhouse Road, Blackhall, Edinburgh, 4, on September 26, Mr. Joseph Robertson, M.P.S., late of Mayfield, Spey Bay. Mr. Robertson qualified in 1894.

Ruston.—On September 18, as a result of an air crash, Mr. Edward Ruston, Ph.C., 31 Bletchley Road, Bletchley, Bucks. Mr. Ruston was motoring during a Battle-of-Britain display and was trapped when the car in which he was travelling was set on fire by burning petrol. He qualified as a chemist and druggist in 1903, and as a pharmaceutical chemist in 1905.

Wilson.—On July 22, Mr. John Jordan Wilson, whose address in the register was 5 May Road, Whalley Range, Manchester 16, aged seventy-nine.

WILLS

Mr. W. J. Gregory, M.P.S., 37 Northbrook Street, Newbury, Berks, left £252.

Mr. J. Fairbairn, M.P.S., Longley Road, Tooting, London, S.W.17, left £1,374 (£1,326 net).

Mr. E. J. Hart, M.P.S., Downend Road, Horfield, Bristol, left £3,865 (£3,395 net).

Mr. S. S. Garnham, M.P.S., Valley House, Valley Road, St. Helier, Jersey, left £1,705.

Alderman Francis Stafford Clark, Ll.D., J.P., 5 Burnt Ash Lane, Bromley, Kent (a former director of Aspro, Ltd.), left £53,534 (£50,791 net).

Mr. J. C. L. Rhodes, retired pharmacist, Stillington Hall, nr. York, formerly of Mirfield and Southport, left £20,723 (£20,685 net).

Mr. A. S. Hunter, M.P.S., 11 Viewlands Terrace, Perth, formerly of Wainfleet, Lincs, left £11,599.

Mr. A. M. Hesse, Hookwood, Hendon Avenue, London, N.3 (former sales director of Yardley & Co., Ltd.), left £226,983 (£210,441 net).

Mrs. Violet Wooller, 17 Eastgate Street, Gloucester, a director of Ward & Woodman, Ltd., chemists, Gloucester, left £2,696 (£2,582 net).

Mr. W. J. Shaw, 21 Moira Park, Bangor, co. Down, a retired representative of Bovril, Ltd., and Virol, Ltd., left £785.

Mr. H. G. Elborne, M.P.S., Hilldene, Howards Hill, Cromer, Norfolk, manager of Boots, Ltd., Church Street, Cromer, left £6,855 (£6,775 net).

Mr. W. Stephens, 15 South Close, Woodhall Gate, Pinner, Middlesex, advertising manager for Potter & Clarke, Ltd., left £2,671 (£2,584 net).

Mr. W. A. V. Lengden, M.P.S., Concord, London Road, Charlton Kings, and 337 High Street, Cheltenham, Glos, left £12,408 (£12,297 net).

Mr. T. Birtles, M.P.S., 77 Norfolk Road, Sheffield, superintendent of H. W. Stanley Marshall (Chemist), Ltd., Thorpe Hesley, Rotherham, left £191.

Mrs. A. A. Smith, of Apple Tree Cottage, Braywick Road, Maidenhead, Berks, wife of Ernest A. Smith, a director of Sangers, Ltd., left £3,156 (£3,084 net).

Mr. R. J. Orchard, M.P.S., Salisbury House, Hardwick Square, Buxton, formerly of Manor Farm, Manor Road, Ilkeston, Derbys, left £1,786 (£1,737 net).

Mr. Charles Reynolds Picken, M.P.S., 121 High Street, Salop, left £87,188 (£85,621 net). He left £2,000 to the Worshipful Company of Haberdashers, to pay the income to the Pharmaceutical Society to create a Picken scholarship to assist pupils of Adams Grammar School to qualify as pharmacists, and £100 to the Benevolent Fund of the Pharmaceutical Society.

COMING EVENTS

Monday, October 4

West Kent Branch, Pharmaceutical Society, Public Baths Hall, Beckenham Road, Beckenham, at 8 p.m. Mr. H. G. Rolfe, B.Sc., Ph.C., on "The British Pharmacopœia, 1948," and Mr. J. Wright, Ph.C., on "The New National Formulary."

Tuesday, October 5

Dundee Branch, Pharmaceutical Society, Royal Hotel, Union Street, Dundee, at 7.30 p.m. Reports from Delegate Conferences. Mr. R. G. Mackenzie, M.P.S., on "Awkward Prescriptions."

Fine Chemicals Group, Society of Chemical Industry, Royal Institution, Albemarle Street, London, W.1, at 7 p.m. Professor J. H. Burn, M.A., M.D., F.R.S., on "Fine Chemicals for Medical Uses."

Wednesday, October 6

Birmingham Branch, Pharmaceutical Society, Grand Hotel, Birmingham, at 8 p.m. "Comments on the British Pharmacopœia, 1948," by Mr. F. C. R. Bateson, B. Pharm., Ph.C. (head of pharmacy department, Birmingham Central Technical College).

Glasgow and South-western Scottish Branch, Pharmaceutical Society, Institute of Accountants and Actuaries, 220 St. Vincent Street, Glasgow, at 7.30 p.m. Mr. A. A. Meldrum (a member of the Society's Council), on "Pressing Pharmaceutical Problems."

Thursday, October 7

Wimbledon Pharmacists' Association, Wimbledon Town Hall, at 7.30 p.m. Mr. H. E. Dale (Boots' Pure Drug Co., Ltd.) on "Recent Advances in Medicine."

Durham Branch, Pharmaceutical Society, Pattinson's Dunelm Hotel, Durham, at 7.30 p.m. Mr. J. C. Penman, Ph.C., on "The British Pharmacopœia 1948."

Chadwick Public Lecture, Reception Room, Bristol, University, at 8.30 p.m. Mr. Asa Briggs, M.A., B.Sc., on "The Public Health Act of 1848: a Forgotten Centenary."

London and South-eastern Counties Section, Royal Institute of Chemistry, South-east Essex Technical College, Longbridge Road, Dagenham, at 7 p.m. Dr. N. Booth, F.R.I.C., on "Careers for Chemists."

Monday, October 11

Southampton Branch, Pharmaceutical Society, Polygon Hotel, Southampton, at 7.30 p.m. Film show: "Physiology of the Kidney," "This is Colour," "Salt," and "Ammonia."

Birkenhead and Wirral Pharmacists' Association is holding a dance in aid of charity at Hulme Hall, Port Sunlight, on October 14. Tickets, price 10s. 6d. each, may be obtained from Mr. J. W. Waterworth, M.P.S. (social secretary), 224 Bebington Road, Birkenhead.

Western [London] Pharmacists' Association is holding a reunion supper at the Lysbeth Hall, Soho Square, London, W.1, on Thursday, October 14, (reception at 7 p.m., supper at 8 p.m.). Tickets (price 7s. 6d. each) may be obtained from Mr. Clifford Evans, 135 Ladbroke Grove, London, W.11.

The Pharmacy Branch of the St. Joseph's Young Priests' Society is holding its annual week-end retreat for men at the Jesuit Retreat House, Milltown Park, Dublin, November 27-29. Those wishing to take part should make early application to Mr. F. P. McDonnell, M.P.S.I., 12 Summerville Park, Upper Rathmines, Dublin.

PERSONALITIES

Mr. C. D. Fraser, Harrogate (chairman of the West Riding Pharmaceutical Committee), has been appointed a member of the management committee of the Harrogate and Ripon (No. 23) Hospital Group.

Mr. Robert Machray, M.B. B.S. (son of Mr. George Machray, M.P.S., Sydenham), has been elected a Fellow of the Faculty of Anæsthetists by the Royal College of Surgeons for his contribution to anæsthetics.

Mr. W. B. Kelly, who has been on the staff of W. J. Bush & Co., Ltd., Hackney, London, E.8, for over sixty-two years, was given a special present from the directors and staff at a ceremony at the company's works on September 14, held to honour Mr. and Mrs. Kelly's golden wedding.

Dr. William Ogilvy Kermack, has been appointed to the new Macleod-Smith chair of biological chemistry at Aberdeen University. Dr. Kermack worked for a number of years as biochemist to the laboratory of the Royal College of Physicians, Edinburgh.

Mr. D. Lyndon Jones, Ph.C., Bexhill, who, as reported in the daily Press, fell recently, breaking his wrist, and was treated by a hypnotist, has sent us the following comments on his experience. The hypnosis did not reach a condition of full anæsthesia, but the senses were dulled, and voices in close proximity seemed far distant. The pain in the wrist was absent while the hypnosis lasted. Mr. Jones feels that, in the hands of an expert, and in conjunction with medical knowledge, hypnotism may in the future become of considerable value in alleviating suffering.

U.S. VISITORS IN LONDON. Mr. J. P. Spang, jun. (president, Gillette Safety Razor Co., U.S.A.) with his family, photographed on the train at Waterloo as they left London after a visit to this country.

TRADE NOTES

Largest Liquorice Manufacturers.—The claim to be the largest manufacturers in this country of stick liquorice juice is made by MacAndrews & Forbes, Ltd., proprietors of the Apollo brand. The address of the company is 12 Caxton Street, London, S.W.1.

Holiday Closing. — Edwards, Sons & Partners, Ltd., 32 Shaftesbury Avenue, London, W.1, announce that their London office will be closed for annual holidays from October 1 to October 14 inclusive. The office at 94 Market Street, Manchester, 1, will remain open during this period.

Œstradiol for Oral Administration.—Organon Laboratories, Ltd., Brettenham House, London, W.C.2, have introduced Lynoral ethinyl œstradiol for oral administration. The compound is derived from the natural œstrogen and is of high potency, thus enabling small dosage without side effects.

Christmas Packs. — Goya, Ltd., 161 New Bond Street, London, W.1, draw attention to four special Christmas gift packs, of which two are in fairly plentiful supply. A Goya travel quartet (at right in illustration) comprises four travel-size bottles of perfume (Studio, No. 5, Heather, and Great Expectations) in attractive blue and pink packs. The second item (at left), a neat pink casket, contains one Grandee (extra large) lipstick, and two handbag phials of perfume (Heather and Great Expectations); the lipstick can be varied from the full range of eight colours. In more restricted quantities are the Goya Christmas "cracker" and a new Goya "collection" (at rear in illustration). The "cracker" contains three phials (Studio, Heather and Great Expectations) and the "collection" four phials (Studio, Heather, Great Expectations and Gardenia).

Soapless Shampoo. — Scott & Bowne, Ltd., Winchester House, Old Broad Street, London, E.C.2, are the distributors of a newly introduced Silvikrin Lustrefoam shampoo which is described as "a soapless shampoo with a difference." Made with oil, it is claimed not to cause dryness.

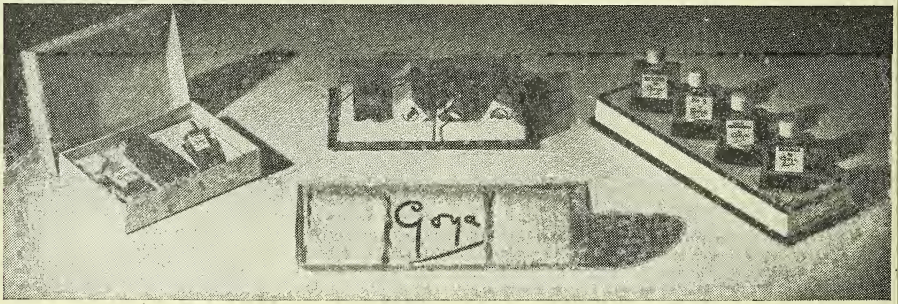
Chemical Bactericide.—Ward, Blenkinsop & Co., Ltd., 6 Henrietta Place, London, W.1, draw attention in this issue to phenylmercuric nitrate, which they present in 1-gm. and 10-gm. tubes. They offer to send to chemists on request full details of the method of using this compound.

Containers for Hypodermic Solutions.—Diagrammatic details are given on another page of newly introduced Suba-Seal "hypodermic units." The units are bulk-solution containers for hypodermic injections. They have patented ribbed caps that bear against the periphery of the rubber closure to form an effective seal.

Botanical Drug Prices. — A monthly booklet giving prices for 28-56-lb. lots of a large range of barks, flowers, herbs, nuts, seeds, roots and other botanical raw materials of medicinal application is issued by Brome & Schimmer, 7 Leather Market, London, S.E.1. The October issue includes an illustrated monograph on aconite root.

Available in Any Quantity.—Described as an "old favourite," Laurence's one-solution hair dye is now available in any quantity from Harker, Stagg & Morgan, Ltd., Emmott Street, London, E.1. The shades are raven black, black, dark brown, brown, light brown, golden blonde, chestnut and auburn.

Eye-catching Cartons. — W. Sutton & Co., Druggists' Sundries, London, Ltd., Horseshoe Lane, Enfield, Midlesex, draw chemists' attention to the pack in which



Charny bath salts are issued; the carton is greaseproof and printed in an attractive blue and black design. — VIRGINIA'S HOLLYWOOD PREPARATIONS (1936), LTD., Ipswich Road, Slough, Bucks, have recently introduced a new "eye-catching" carton in which Virginia's Hollywood eye-lash grower is being sent out.

Treatment of Myasthenia. — Allen & Hanburys, Ltd., Bethnal Green, London, E.2, have made available T.E.P.P. (tetraethylpyrophosphate) in oral tablets containing doses of 1 mgm., 2 mgm. or 5 mgm. in each tablet (bottles of twenty-five and one hundred), and in ampoules for intramuscular injection containing 5 mgm. in 1 c.c. (boxes of six). The preparation closely resembles eserine and neostigmine in therapeutic action and is of particular value in treating myasthenia gravis.

Chemical Manufacturers' Directory.—Newnham, Cowell & Gripper, Ltd., 21 City Road, London, E.C.1, have just published for the proprietor (A. J. Pilbrow) the 80th edition of the Chemical Manufacturers' Directory. The Directory includes a list of chemicals and their makers; separate lists of chemical manufacturers in England and Wales, Scotland, and Ireland; and short lists of chemical manufacturers' agents and brokers in London. Copies may be obtained through Simpkin, Marshall (1941), Ltd., Rossmore Court, Park Road, London, N.W.1.

Baby Powders.—Announcements in this issue concerning branded baby powders include (1) details of national Press advertisements appearing for Mennen borated baby powder which is again available on the British market, being now manufactured in England for the Mennen Co. by FASSETT & JOHNSON, LTD., Clerkenwell Road, London, E.C.1; (2) an illustration of and information about a new container and display unit for Meritor baby powder, issued by S. MAW, SON & SONS, LTD., New Barnet, Herts; and (3) a statement that supplies of Johnson's baby powder, issued by JOHNSON & JOHNSON (GREAT BRITAIN), LTD., Slough, Bucks, are again plentiful.

Aspirin Chewing-tablet. — Westminster Laboratories Ltd., Chalcot Road, Regents Park, London, N.W.1, have introduced Magsilate, which is described as "a new form of acetylsalicylate therapy." The essential feature of the product is that each tablet encloses acetylsalicylic acid in a covering of magnesium silicate and magnesium hydroxide with a further outer coating of sugar. It is claimed that the administration of aspirin is made practicable by this means in cases that react unfavourably to the drug when administered alone. The whole tablet is flavoured and palatable, and can be taken without the need for a subsequent draught of water.

Price Lists.—CIBA LABORATORIES, LTD., Horsham, Sussex, have issued a new trade price list. In addition to bringing the list up-to-date in respect of packings and prices, the makers have added notes on their therapeutic properties and principal indications and have introduced cross-references to B.P. and B.P.C. names applicable to their own preparations that are now official. A copy will be sent to any pharmacist on request. — SAVORY & MOORE, LTD., 26 Lawrence Road, Tottenham, N.15, London, have issued a comprehensive list of the medical specialities marketed by the company and its associates. A copy will gladly be sent to any chemists on application.

Proprietary Articles Trade Association

Additions to Protected List (Part 1).—*Pharmaceutical Laboratories Geigy, Ltd,,* Neocid C.M. emulsion, 16s. doz., tax 33⅓ per cent., inclusive retail price 2s. 6d.; Sedestrol, 16s. doz., 2s. (exempt from tax). These prices do not apply to Eire.

Alterations to List (Part 1).—*The British Drug Houses, Ltd.,* Calsimil tablets now exempt from purchase tax: 60's, 22s. doz., 2s. 9d.

Newton, Chambers & Co., Ltd., Izal medical soap—correction to year-book: 5s. 5d. doz., tax 33⅓ per cent., i.r.p. 10d.

A PHARMACIST'S ANTHOLOGY

THERE were many smells. One had to stop and try them again. Once it was frangipani, and once it was vanilla, and once it was cloves. There was a sombre plantation of small and unfamiliar trees. They had glossy leaves and a fruit like green plums; but their fragrance, which was only a faint and occasional air, was familiar. My memory was slow, and I wondered why it was I knew the smell of trees I had never seen before. On one tree a number of the green plums had opened at the bottom, and disclosed within each was a heart overlain with a scarlet filigree. In that twilight the opened fruit were as bright as glow lamps. What are the Spice Islands for but nutmegs?

From "Tidemarks" by H. M. Tomlinson.

PRESCRIPTION PRICING WITHOUT TEARS

By Jos. A. Speed

RECENTLY an experienced pharmacist in the centre of a large city telephoned to say he had received for dispensing an indecipherable prescription issued by a suburban doctor. The doctor had refused to translate his requirements; what was he to do? The answer was to send the script to the Pricing Bureau. There it was readily read by a girl who had had no pharmaceutical training, and a typewritten copy was sent to the pharmacist. No reflection on the ability of the pharmacist is intended, for the doctor's writing is notoriously bad.

How One Bureau Pays on Time

In that Bureau the number of prescriptions returned as illegible is little more than one in a million. There one girl can be observed effortlessly pricing prescriptions at the rate of 4,000 a day with a percentage of error amazingly small, and she rarely glances at the costs chart. The pricing in that office is up-to-date, chemists being paid regularly on the first Monday in each month —and that goes for the new service as well as the old. Chemists will be sent on October 4, for example, cheques in payment of their fully-priced August scripts. What is the secret? Whilst the prescribing range of doctors generally covers voluminous formularies, and the proprietaries they order are supplied by hundreds of drug houses, the prescribing of any one doctor is confined usually to a few non-proprietary preparations and perhaps the same number of proprietary items—mostly from one wholesale house. An outstanding instance is quoted of one well-known and extremely popular general practitioner who carried on his practice for many years, ringing the pharmaceutical changes on only four prescriptions!

As for doctors' writing, the worst is usually not too difficult to follow when read daily. Starting with the novice in this work, let her first pass her time reading leisurely a few dozen letters on all manner of subjects that one doctor has written to an Executive Council. In a few days she has mastered his calligraphy. Next let her be supplied with the same doctor's short list of non-proprietary preparations, and later his customary proprietaries, with maker's name. In a few days she has easily memorised them all. Then let the price be placed against each item. A fortnight has passed. Is she not now able to price the bulk of that doctor's prescriptions? Of course she is. Then the plan is to extract from chemists' bundles all prescriptions issued by that doctor; indeed, all like prescriptions will be segregated for her benefit. A month has passed since she started on this venture. What is her rate of pricing? 500 a day? The only trouble is that there are not enough prescriptions of any one doctor to keep her going or she would soon be into the four figures.

But still she is only a one-doctor bulk pricer. Having mastered the eccentricities of one doctor let her repeat the routine for doctor No. 2, and so on. In this way, not only is the bulk of pricing done without difficulty at this office, including most of the proprietaries, but the beginner learns (but only to handle problems arising from her own doctors' prescribing) as she goes along. A more experienced pricer supervises, say, four or five such trainees, herself pricing the relatively few more difficult or out-of-the-ordinary prescriptions. Compare this trained person with the harassed pricer who receives a bundle of higgledy-piggledy prescriptions issued by, say, twenty doctors, all different from those in the conglomerated bundle she has just finished. She has to assimilate the hieroglyphics, idiosyncracies and pricing problems of perhaps hundreds of doctors. Every prescription is different from the previous one. If one gives her special trouble she is not aware that her next-desk neighbour may be struggling with the selfsame problem from the selfsame doctor. Had the whole of these "awkward" prescriptions been put together in the one bundle, what a saving of time there would have been.

A Scheme for General Adoption

The writer will now outline a scheme which, though it has not been tried out *in toto,* centres round a major principle that has stood the test of time. First, let the chemists help, as they do in a certain area, by sending in their prescriptions in doctor order, with a card docket on the top of each doctor bundle. The docket bears an impression of the chemist's rubber stamp and the name of the doctor. Even if they were asked to go a little further—as far, perhaps, as to group proprietaries, etc., the amount of work involved would be much less in quantity and nothing like so exacting as that

suggested under averaging or dosage schemes. On receipt at the pricing office, the chemists' bundles would be separated into doctor groups, each with its proper docket, and the prescriptions of each doctor collated. At that stage, therefore, instead of having a chemist's bundle divided into doctor strata, the bureau is working with a doctor's bundle divided into chemist layers, the appropriate card docket being on the top of each section.

The prescriptions are priced—each girl having her own "short list" of doctors, which she retains month after month. The priced prescriptions are passed to the machining room, where they are added and the totals (ingredient cost and dispensing fee) separately entered on each chemist's docket, the dockets being separated from the scripts in the process. The scripts, now in near-apple-pie order for investigating into doctors' prescribing, are re-parcelled and discarded. Before disturbing the order of the dockets, each little doctor pile is machine-summarised, and another big step thus taken towards subsequent compilation of doctors' prescribing statistics. The dockets are then resorted into chemist order, again machine-summarised, and the totals transferred to Chemists' Account Sheets, which are now ready for dispatch to the Executive Council for payment. The procedure is roughly the reverse of that followed in the old days in preparing doctors' statistical data, and is done with one handling instead of two. True, there would be, in the pricing bureau, some extra sorting work, but it would be undertaken by junior clerks requiring little training, whilst different-coloured dockets and sorting machines would make it rapid and mechanical.

A prescription pricing bureau much in arrear has sent out an appeal to up-to-date offices to take over some of its back work. A pricer in another office, trained on the "come-what-may" system, might be able to handle a heterogeneous bundle of scripts from another area with some hope of success. But those offices are behind with their own work. On the other hand, a pricer in the up-to-date office who has concentrated and specialised on the prescriptions of a mere handful of doctors, would be hopelessly at sea when faced with a mixed bundle from another area.

Two main problems exist:—

(i) Chemists demand up-to-date payment on fully-priced scripts.
(ii) The general scheme of pricing has failed to meet the demand.

The principal cause of failure may well be that pricers receive an unnecessarily long training covering the whole pharmaceutical universe, so that when one leaves the service a local major catastrophe happens which takes a year or longer to overcome. That in its turn produces staff shortages. The general remedy suggested is a short course of training for each pricer covering a section only of the pharmaceutical universe, with a bold scheme of redistribution of work to secure maximum advantages from that limited training. The solution is not to be found in paying higher wages to pricers than to other general clerks. A pricer should not be more valuable or more difficult to replace than a skilled machine operator or accounts clerk, and paying them more-than-normal-scale salaries only creates grievances amongst other members of the staff.

Summary of Advantages

The advantages of "own-doctor" pricing over the "come-who-may" pricing are:—

(i) The period of training of prescription pricers is greatly curtailed.
(ii) The work of each pricer is considerably simplified and becomes less fatiguing.
(iii) Pricers can be recruited from a wider range of applicants, and staffing problems minimised.
(iv) Output per pricer is increased.
(v) Individual accuracy is greater.
(vi) Fewer prescriptions are returned for elucidation.
(vii) Ordinary pricers are able to deal with a larger proportion of proprietaries.
(viii) The work of investigation into individual doctors' prescribing is automatically more than half done.

The system could be advantageously extended so that all prescriptions issued by a given doctor could be priced by one girl in one bureau only. In each bureau there would need to be a few sectional supervisors with capabilities equivalent to present "all-in" experts; the rest need but little skill.

The views expressed in this article are personal and must not be read as carrying any official backing, nor are they necessarily the considered opinions of any organisation with which the writer's name is associated. They are, however, the outcome of thirty years' trial and error as secretary of a prescription-pricing bureau now passing to a new management.

BRITISH ASSOCIATION PAPERS

Among the papers read at the recent meeting of the British Association in Brighton (see *C. & D.*, September 18, p. 367) was one by Dr. M. F. Perutz on "The Structure of some Crystalline Proteins." By *x*-ray analysis, said Dr. Perutz, hæmoglobin, the respiratory pigment of the blood, had been shown to consist of four layers of parallel, folded polypeptide chains, each layer forming a disc of about one six-millionth of a millimeter in diameter and one millionth in thickness. Myoglobin, the respiratory pigment of muscle, probably consisted of a single layer of parallel chains, with dimensions similar to any one of the four layers in hæmoglobin. Further studies of these and other proteins were being pursued in several laboratories.

Endocrine Dysfunction in Cattle

Dr. K. L. Baxter, who spoke on the endocrine treatment of dairy cattle, said that the treatment was of two types: First, the sporadic treatment of abnormal animals suffering from endocrine dysfunction; and secondly, the widespread treatment of perfectly normal animals to increase their productivity. Widespread treatment of thousands of normal animals presupposed a large supply of endocrine preparations, and for this reason synthetic sources of hormones had the greatest potential use. Synthetic œstrogens and iodinated proteins that contained thyroxine had been used for increasing productivity on a fairly large scale. He described the induction of lactation in barren cows and virgin heifers by synthetic œstrogen treatment. The factors limiting the practical use of the materials were the enormous range of variability in response, plus the fact that treated animals were in œstrum during the whole period in which œstrogen was being absorbed, leading to coital mimicry and many pelvic fractures if the treated animal was allowed to run with other cows. Thyroxine, in the form of iodinated proteins, induced a considerable increase (up to 50 per cent.) in milk production of already lactating cows. Factors to be considered in assessing the practical value of the treatment included the normality and nutritional adequacy to the human being of the extra milk produced, and the margin of safety between over and optimal dosage.

Udders Artificially Grown

Dr. S. J. Folley, speaking on hormonal and nervous factors in lactation, said that hormonal relationships controlling the mammary glands have been unravelled with such success that in ruminants udders can be artificially grown which will often produce milk in amounts comparable with natural lactation. There was evidence for the nervous regulation of the secretion by the anterior pituitary of hormones, notably prolactin, governing the initiation and maintenance of milk secretion. The suckling stimulus apparently caused reflex secretion of prolactin by a pathway not yet understood. Nervous and endocrine mechanisms also co-operated in controlling the expulsion of milk from the mammary tissues. Milk does not flow freely from the alveoli as secreted, but must be expelled by a contractile mechanism brought into play by stimuli associated with suckling and milking.

Transmission of Nerve Effects

Introducing a discussion on the "Transmission of Effects from the Endings of Nerve Fibres," Sir Henry Dale, F.R.S., accepted as a basis the evidence for chemical transmission, from nerve endings to effector cells or secondary neurones, of the effects of impulses in all efferent fibres of the peripheral nervous system. A number of questions then arose, he said, some of which were being answered by current researches. For example: (a) For cholinergic impulses there was no evidence of any transmitter but acetylcholine. (b) It had long been known that *nor*-adrenaline was more closely sympathomimetic than adrenaline itself; and recent evidence suggested that the primary amine might be at least the predominant adrenergic transmitter. (c) Were there histaminergic fibres? Euler found a high proportion of histamine in certain nerves. If they existed, were they truly antidromic? (d) Why were transmitters found in fibres, with enzymes to build and destroy them? Evidence was against their concern with intraneuronal conduction. Did they drift to the terminals, for storage and functional release? What were the facts about release from cut ends by impulses? (e) Why did one transmitter inhibit and the other augment an involuntary effect or function? (f) Direct physiological evidence by Miller, and by Bülbring and Burn, suggested cholinergic transmission at some central synapses. Action of anticholinesterases pointed in the same direction. Feldberg and Vogt's biochemical evidence limited the suggestion to

certain neurones; but analogy made a fundamentally different mechanism unlikely at others. Did other transmitters exist?

Drs. J. W. Pringle and G. M. Hughes, in a paper on "Differential Facilitation of Antagonistic Reflexes in Arthropods," said that polarising currents, passed laterally through the metathoracic ganglion of the cockroach, affected the flexorextensor balance, so that the leg on the negative side flexed while that on the positive side extended. With longitudinal stimulation, ascending currents tended to produce flexion of the legs on both sides, and descending currents encouraged extension. In each case the effect of weak currents was additive to that of suitable sensory stimulation evoking flexor or extensor reflexes. The use of weak direct currents provided a means of studying the internuncial fibres of the central nervous system, about whose properties there was little direct evidence. It was possible that the short Golgi Type II cells did not conduct impulses but were responsible for the establishment of fields of polarisation within the neuropile.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

At a meeting of the Council of the Pharmaceutical Society of Northern Ireland held in Belfast on September 17, the president (Mr. John McGregor) was in the chair. Also present were Messrs. H. H. Cowzer (vice-president), P. R. W. Shinner (treasurer), S. Campbell, F. R. Moore, J.P., H. F. Moore, W. H. Boyd, J. McDowell, Walter C. Tate, H. W. Gamble, J. Abernethy. W. P. Ewart, H. P. Crossin and Professor E. B. C. Mayrs. W. Gorman (secretary) was in attendance. Mr. Crossin was congratulated on his recovery from his recent illness.

Opening of New Pharmacies

A letter was read from a pharmaceutical chemist in a provincial town drawing the attention of the Council to the need for control over the number of new chemists' shops which were being opened. The writer said that in his town, with a population of 1,000 and a countryside of 2,000 people, there were already three shops and another was about to be opened. The President said that, on a previous occasion, the Council had approached the Government on the matter but it had been decided that legislation could not be introduced as it would be a restriction on trade. Mr. Gamble suggested that one method of limiting the number of new pharmacies would be to impose control on the number of limited companies. The President replied that an effort had been made, but without success, to amend the law so that a qualified pharmaceutical chemist should hold 51 per cent. of the shares of any limited company that was formed. After discussion it was decided on the motion of Mr. Boyd, seconded by Mr. Cowzer, to refer the matter to the Law Committee for re-examination. It was also agreed that the Law Committee should examine the position of apprentices after Mr. Ewart had drawn attention to the short hours spent by apprentices with their employers.

The minutes of the Education Committee, which were adopted, recommended that certificates of apprenticeship should be granted to Margaret E. Briggs, Milford; William R. M. Horner, Belfast; Thomas Lee, Kilmore; Leo M. Mason, Belfast; Patricia J. Milne, Bangor; John K. McGregor, Belfast; Godfrey R. Taggart, Ballymena; Desmond P. Bartley, Belfast; William T. Goldon, Belfast; and Norman McCullough, Bangor. The Committee declined to give recognition to the Larne Technical School for the teaching of chemistry and physics for the Part I examination and the teaching of chemistry and physics for the Part II examination.

The appointment by the House Committee of a new caretaker for the Society's building was approved. Mr. Shinner submitted the draft balance sheet, which is to be presented at the annual meeting to be held on October 4, at 7.30 p.m. The draft was adopted. Messrs Boyd and Gamble were appointed as scrutineers for the ballot in the event of an election for the vacancies on the Council.

Improved Standard in Physics

The Council considered the reports of the examiners who conducted the examination in June. It was noted with satisfaction that Dr. R. H. Sloane was able to say that the physics papers showed a definite improvement over any previous occasion in his experience. The improvement reflected a better grasp of the subject and more logical thought by the candidates. Dr. Sloane added "It may, of course, have been due in part to slightly greater choice of questions allowed, but I am convinced that this increased choice cannot itself explain the improvement.

DANGEROUS PLANTS TO TOUCH

By A. E. H.

PLANT collecting in tropical Africa has its thrills. The country in which the dreaded sleeping sickness is carried by the tsetse fly hides many an unknown species. The vast rafts of floating papyrus sudd are richly endowed with ferns, orchids and water plants, but are weird, undulating, unstable worlds, abounding in reptiles and mosquitoes. Even the safe country, where man has scared away the game, provides surprises for the unwary. Woe betide anyone who stumbles into a thicket infested with the buffalow bean, *Mucuna pruriens* D.C., with the clusters of velvety-brown pods clinging to its vines. The short hairs that cover the pods are so easily shed that they float about in the air whenever the plant is disturbed, and the itch they cause on a sweating skin is something never to be forgotten.

Poison-tipped Seeds

There are sharp-pointed seeds (*Heteropogon contortus,* and *Bidens sp.*) that work through clothing and cause tiny wounds in the skin, which are just as likely to fester as are the scratches made by certain thorns (*Sanseveira sp.*), that would appear to be poisoned tipped. Sticky seeds and fruit pods cling so tenaciously to stockings that it takes hours to pick them off before the garments can be washed, and the juice exuding from broken stems stains one's shirt with brown and purple patches that seem faster than many a dye. It behoves a botanist to wear sound boots, canvas gaiters, and old clothes.

I remember blaming the headman of a village on Kilimanjaro Mountain for the insanitary state of the surroundings, and then discovered that the dreadful stench emanated from a large plant (*Senecio multicorymbosis* S. Moore.) that was used to form a hedge, and which was in full flower. On another occasion in the Pa-re mountains, south of the Kenya border, the air was fragrant with a glorious scent—so fragrant that I sought eagerly for the cause, only to find a nondescript shrubby composite (*Nidorella Elliottii.* S. Moore) that lost its lovely odour and produced an awful stink in undiluted concentration at close quarters. The flowers of the arrow-poison tree *Acokanthera longiflora* Stapf., have a strong and lovely scent that is reputed to cause insensibility, and a climbing plant in the Northern Province of Tanganyika Territory throws off such a sickly and peculiar odour when it flowers that a sensitive person feels he want to vomit, and is forced to hurry away from its unpleasant influence.

Thorny leaves, branches, trunks, vines pods and seeds are of course legion; thorn may be straight or curved, and arranged in twos and threes in every conceivable defen

Fleurya Sp. nr. Lanceolata

sive device. The elephants tear down acacia branches and swallow the thorns intact, but they do not easily digest them, so that a cyclist who uses a road contaminated by the vast heaps of decomposing dung has his tyres punctured. A species of acacia provides a home for a stinging ant in the swollen bases of its thorns, in which it secretes a sugary substance to attract its valiant ally. A creeping annual in dry sandy country (*Tribulus terretris*) has seeds with spines arranged so that always one points upwards. African natives hate the plant, because the thorns stick in their bare feet. It may have given some of the tribes the idea to place poisoned thorns in the path of an advancing enemy, or to put them where an unwary thief might tread.

Plants of the euphorbia family can give unpleasant surprises. A freely branching shrub that is used as a hedge plant throughout Usakumaland south-east of Lake Victoria, and known as the "manyara," is

dangerous to cattle and young children. The twigs snap easily and exude a milky sap that causes blindness if it splashes into the eyes. Many of the Sukuma cattle are blinded by this plant. In 1928 I thought a use could be made of a tacky coagulant from the latex of the candalabra euphorbias for banding the trunks of fruit trees, but received a splash across the face that blistered my skin. A month before this, I had collected plants by the wayside and rubbed the sweat from my eyes with the back of a hand. My eyelids were blistered and raw for days afterwards, and the plant juice that had been responsible could not be traced.

Nettles are quite unlike those to be found in Europe. A climbing plant has stinging hairs formed by bracts behind the calyx of the flower, which cause intense pain if they penetrate the skin. The nettle tree (*Obetia pinnatifida*) grows in some of the ravines of the Pa-re mountains. It reaches a height of thirty feet, the trunk bristling with dead spines that make it resemble a monkey-puzzle tree. The huge palmate leaves, the long leaf stalks, and indeed the whole plant, are covered with spiny, stinging hairs, nearly an inch long, and the natives will not dare go near the plant. On the slopes of Kilimanjaro mountain the Wachagga tribe chastise their children by flicking their bodies with nettles (*Urtica massaica* Mildbr. or *Fleurya æstuans* Gaudich).

Possible "Extractor" of Poisons

On the plains of Tanganyika Territory, near the Kenya border, I once touched my wrist against another species of fleurya. A slight tingling sensation soon ceased, and then a patch of skin began to sweat. Moisture oozed out of the pores for a day and a half, dripping from my wrist, and soaking handkerchiefs that were bound round it, yet there was no pain, or irritation, or inflammation. I have often thought that the plant, or its reactive substance, might be useful to extract the poison of insect bites, or to cure other causes of local poisoning.

There are so many thousands of species of plants in Africa, and so many that are new, and as yet unknown, that no botanist can know the peculiarities of them all. Genera such as the solanum contain both edible and poisonous plants. On a botanising expedition on a hot day a man may often be tempted by the glistening juicy fruit hanging from a vine, but if he is wise, he stolidly continues to fill his press and disregards the lure. Everywhere, even in the populous townships, new species may still be discovered, growing in restricted areas, and perhaps very rare. The great groundnut scheme is obliterating the natural vegetation of untravelled country, and must be extinguishing many a localised species that has never been collected or described, the medicinal properties of which may never now be known.

PRESERVATION OF PANCREAS GLANDS

LINDNER in the "Chronicle of the World Health Organisation" (1948, volume 2, p. 153) describes an improved dehydration method of preserving pancreas glands elaborated at the biochemical laboratory of Farwerke, Hochst, Germany. For efficient storage, the glands must be disintegrated rapidly and treated with an anhydrous salt during the process. The procedure is most suitably performed in rapid-cutting machines of the type used by butchers. The sickle-shaped knives disintegrate the pancreatic tissue and mix it with the anhydrous salt. In a large machine 12-15 kilos of the glands can be processed at a time. The glands should be collected and prepared as soon as possible after slaughtering, and then kept in cold storage (5-8°C) until processed the same day. They are spread uniformly in the dish of the cutter and covered with 700 gm. anhydrous, finely-ground sodium sulphate for each kilo of pancreas. The machine is set in motion, and after eight to ten minutes a homogeneous and rather compact mass is obtained. This is placed on iron sheets in layers about 5 cm. thick. The mass is left for about an hour and then taken into a refrigeration chamber for cold storage. By the next morning, the cakes have solidified into slabs so hard and compact that they can be piled up without any special care. The preparation obtained must be stored in a dry place at a temperature of 5-8°C. Under those conditions no loss of insulin occurs, even after six months' storage. Storage at normal room-temperature is tolerated for several days without damage, and this facilitates transport. Insulin is obtained from this preparation in the usual way, with a yield equal to that usually obtained from frozen glands. (See also *C. & D.*, September 4, p. 294).

Fatty Liver Disease.—A report on the prevalence among infants in the British West Indies of fatty liver disease (Special Report Series No. 263) has been issued by H.M. Stationery Office, price 2s.

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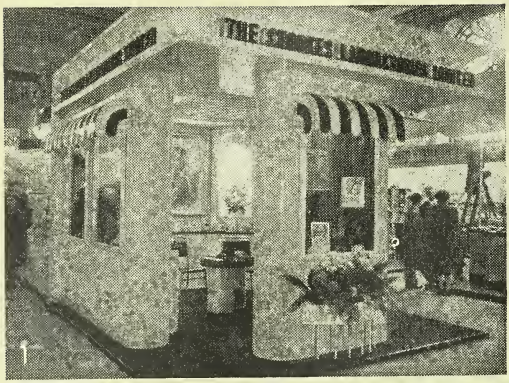

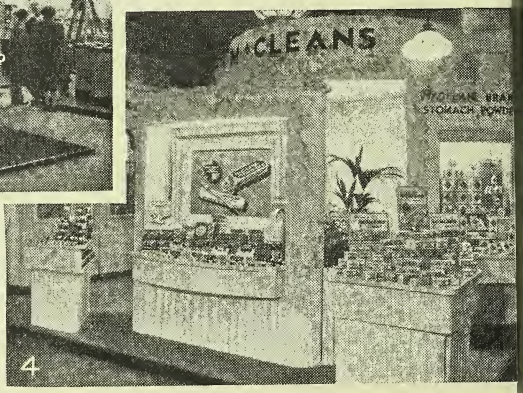

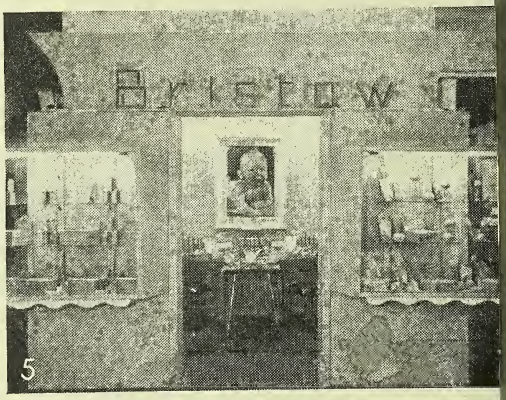

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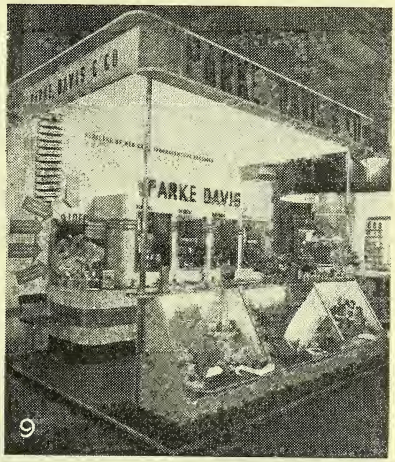

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The Way to Prompt Payment

COMMENTING last week (p. 409) on the decisions of the September 21 Conference of representatives of Pharmaceutical Committees, we concluded with an expression of belief that pricing offices could, by adopting certain "streamlining" devices suggested from the Conference platform, accomplish the full pricing of all National Health Service prescriptions. We wrote, of course, from general principles, and with no special knowledge of the internal arrangements of pricing bureaux. Our confidence has, however, received in the meantime the reinforcement of an authoritative and detailed plan put forward in this issue (p. 434) by a writer with thirty years' experience in the conduct of one of the very few pricing offices that have not fallen into serious arrears with their work. Adoption of our contributor's scheme would, he claims, enable all other bureaux to keep abreast of their pricing, though it is fair to point out that some of the minor details of the scheme, being an extension of practices already successfully operated in one area, are not to the same extent based on actual experience.

An essential feature of the pricing-in-full-without-delay scheme is, it is true, a preliminary sorting of prescription forms by chemist contractors, but it is such a sorting as has, on the one hand, been carried out as a routine procedure in certain areas for many years, and, on the other, involves nothing in the way of an actual pricing operation by the contractor himself — an objectionable and time-consuming feature inherent in the Ministry's "averaging" plan. The sorting of forms proposed is into "doctor" order. The contractor sends forward a packet containing bundles according to the number of prescribers from whom he has had forms. The pricing office re-sorts the bundles into a "chemists-per-doctor" order. All the prescriptions emanating from one doctor are then handed to a pricer who, every month, handles that doctor's forms and the forms of very few other doctors. As the pricer has had an intensive training in reading and pricing the prescriptions of, say, four doctors (commencing by several days' study of general correspondence in the handwriting of each, and leading on through "normal" scripts to "usual proprietaries" and only finally to the pricing-out of items), she develops a facility under which she can price a much expanded total of prescriptions with less fatigue, greater accuracy, and fewer "references back" to the chemist or prescriber. Moreover, by simplifying the work, the pricing bureau can afford to be less exacting when engaging new staff, since only a handful of supervisors need to be fully conversant with every aspect of the work. The result is, of course, a gain in speed all round, with consequent prompt payment to the chemist on the basis of 100 per cent. pricing of scripts. In commending the scheme to the authorities for general adoption, we repeat that all its salient features, at least, have proved themselves in practice.

Calomel in History

A REPRINT of an article in "Chymia" (Pennsylvania University Press) by Dr. George Urdang, Director of the American Institute of the History of Pharmacy and Professor of the History of Pharmacy in Wisconsin University, has been issued almost simultaneously with an article by the same author in the "Journal of the American Pharmaceutical Association" for last July. The first-named article is a survey of the early history, chemical and pharmaceutical, of calomel; the other explores the source of the name. Dr. Urdang has sifted with scholarly vigilance the evidence available in English, Scottish, French, German and American publications. He begins with Berthelot, whose "La Chimie

au Moyen Age" (1893) students of pharmaceutical history have long esteemed. In claiming, however, that certain products described in Arabic or Syriac mediæval manuscripts correspond to mercurous chloride, Berthelot went further than the evidence justifies; for, in addition to obscurities of language, there is the difficulty that definite quantities of the ingredients used are not given. It is shown in the "Chymia" article that a method of preparing calomel by precipitation and subsequent washing was known in Paris before 1608. The centre of interest is then transferred to London. Mayerne's copy of the Pharmacopœia Londinensis of 1618, now in the British Museum, is cited with conclusive effect. It shows, first, that a sublimation process for making "mercurius dulcis" was then, as Mayerne noted, "hodie in usu" (at the present day in use), and secondly, that a precipitation process was attributed to Oswald Croll, whose "Basilica Chymica" first appeared in 1608 or 1609. In the second process the precipitate was washed with tepid water and afterwards with cardiac waters, which term comprised the distilled waters of borage and other plants. The other monograph by Dr. Urdang brings to light a probable or possible identification of the source of the word calomel. In the first Pharmacopœia Edinburgensis (1699), two or three resublimations were ordered for the preparation of mercurius sublimatus dulcis; if, however, sublimation was repeated six times, the product was known as calomelas or aquila alba. By diligent search and with the assistance of Dr. Dorothy H. Schullian, the author has discovered fresh evidence in a book entitled "Medicinal Councels or Advices," published in London in 1677 and attributed to Mayerne. From a passage quoted in the article it appears that a mixture of fifteen grains of mercurius dulcis and five grains of resin of scammony or its alcoholic extract was then known as calomelanos [*sic*] Turqueti. As is well known, the literal meaning of the word is "beautiful-black." In the eighteenth century William Lewis noted that in grinding calomel with "volatile spirits" it becomes blackish, adding, "this is perhaps the true calomel."

Seasonal Export Decline

The value of British exports of all classe of merchandise declined in the month c August with a total, including re-export of £134,653,854, compared with £151 970,301 in July. Making due allowanc for the shorter month, this seasonal fall i not satisfactory as, although imports a £173,756,546 were smaller than in Jul (£185,595,078), the deficit in August wa the greatest since May. The results of th rather disappointing trading in August ar all the more keenly felt coming so soo after the promising disclosures of th Balance of Payments White Paper, o which we commented last week (p. 409)

Exports of manufactured articles fallin within the chemicals group amounted t £7,021,384, against £7,581,387 in July Shipments of drugs, medicines and medici nal preparations accounted for £1,236,86 (July, £1,265,863), of which £382,35 (£416,914) was the value of proprietar medicines exported. Shipments of aspiri in August totalled 111,760 lb., valued a £30,871. Insulin exports totalled £16,812 and penicillin, £173,734. A small increas is noted for exports of ointments and lini ments which in August were valued a £45,633. Of non-proprietary medicines principal buyers were: India, Pakistan, etc. £164,357; Egypt, £85,387; Union o South Africa, £48,168; and British Wes Africa, £43,873. The chief markets fo proprietary medicines were: India, Pakis tan, etc., £52,000; British Malaya £45,115; and Egypt, £32,686. Of othe products in the chemicals group, disinfec tants, insecticides, weedkillers, and cattl and sheep dressings exported in Augus totalled £245,629; salicylic acid and sali cylates, £30,955; tartaric acid, £7,331 and perfumed spirits, £66,603.

Perfumery and toilet preparations (ex cluding spirits, essential oils and soap) sup plied to overseas buyers were valued a £242,951, an increase of £29,389 on th July total. Exports of toothpastes, etc., ir August, totalled £40,254, and of cosmetic products, £66,507. Essential oils exported were valued at £36,657, and toilet soap, £131,932. Re-export totals were: Crude drugs, £25,177; manufactured medicines, £29,096; and essential oils, £17,398.

POISONS LABELLING CHANGES UNDER THE B.P., 1948

[*Concluded from* THE CHEMIST AND DRUGGIST, *September* 25, pp. 402-05, *where a key to the signs is given*]

(*Injectio oxytocini, *Injection of oxytocin, *Oxytocin.)
(10 (OXYTOCIC) units per mil.)
(Labelling controlled by Therapeutic Substances Act, but Sch. 7 (1) notice is additional.)

***Inj. pethidin. hydrochlor. (S.1.) (D.D.) (1)**
(*Injectio pethidinæ hydrochloridi, *Injection of pethidine hydrochloride.)
(State amount of PETHIDINE HYDROCHLORIDE in 1 mil or in 15 min.)
(B.P. doses, 25 to 100 mgm., 2/5 to 1½ gr.)

***Inj. phenobarb. sod. (S.1.) (Rx only) (2)**
(Label sealed container with amount of PHENOBARBITONE SODIUM therein.)

***Inj. physostig. salicyl. (S.1.) (5)**
(*Injectio physostigminæ salicylatis, *Injection of physostigmine salicylate.)
(State amount of PHYSOSTIGMINE SALICYLATE in 1 mil or in 15 min.)
(B.P. doses, 0.6 to 1.2 mgm., 1/100 to 1/50 gr.)
(DISPENSE: 0.6 mgm. in 1 mil or 1/100 gr. in 15 min.)

***Inj. picrotox. (S.1.) (5)**
(*Injectio picrotoxini, *Injection of picrotoxin.)
(State amount of PICROTOXIN in 1 mil or in 15 min.)
(B.P. doses, 0.6 to 3 mgm., 1/100 to 1/20 gr.)
(DISPENSE: 3 mgm. in 1 mil or 1/20 gr. in 15 min.)

*Inj. pituit. post. (P.I.) (13) (Sch. 7 (1).)
(*Injectio pituitarii posterioris, *Injection of pituitary (posterior lobe), *Extractum pituitarii liquidum, *Pituitary (posterior lobe) extract, *Pituitary extract, *Posterior pituitary injection.)
(10 (OXYTOCIC) units per mil.)
(Labelling controlled by Therapeutic Substances Act, but Sch. 7 (1) notice is additional.)

*Inj. procain. et adrenal. fort. (P.I.) (9) (Ex S.1.)
(*Injectio procainæ et adrenalinæ fortis, *Strong injection of procaine and adrenaline.)
*Inj. procain. et adrenal. mit.
(Made immediately before use by mixing Sterile Solution of Procaine Hydrochloride (2 per cent. w/v) with three times its volume of Injection of Sodium Chloride, and adding thereto Injection of Adrenalin in the proportion of 2 mils in each 1,000 mils).
(*See* *Procaine hydrochloride, Sterile solution of, for classification and labelling details.)

***Inj. stibophen. (S.1.) (5)**
(*Injectio stibopheni, *Injection of stibophen.)

***Inj. strych. hydrochlor. (S.1.) (5)**
(*Injectio strychninæ hydrochloridi, *Injection of strychnine hydrochloride.)
(State amount of STRYCHNINE HYDROCHLORIDE in 1 mil or in 15 min.)
(B.P. doses, 2 to 4 mgm., 1/30 to 1/16 gr.)
(DISPENSE: 4 mgm. in 1 mil or 1/16 gr. in 15 min.)

***Inj. sulphadiazin. sod. (S.1.) (Rx only) (2)**
(*Injectio sulphadiazinæ sodii, *Injection of sulphadiazine sodium.)
(State amount of SULPHADIAZINE SODIUM in suitable dose volume.)
(B.P. doses, 0.5 to 2 gm., 8 to 30 gr.)

***Inj. sulpharsphenamin. (S.1.) (4)**
(Label sealed container with amount of SULPHARSPHENAMINE therein.)

***Inj. sulphathiazol. sod. (S.1.) (Rx only) (2)**
(*Injectio sulphathiazoli sodii, *Injection of sulphathiazole sodium.)
(State amount of SULPHATHIAZOLE SODIUM in suitable dose volume.)
(B.P. doses, 0.5 to 2 gm., 8 to 30 gr.)

***Inj. thiopent. sod. (S.1.) (Rx only) (2)**
(Label sealed container with amount of THIO-

***Inj. tryparsamid. (S.1.) (4)**
(Label sealed container with amount of TRYPARPENTONE SODIUM therein.)
SAMIDE therein.)

*Inj. vasopressin. (P.I.) (13) (Sch. 7 (1).)
*Injectio vasopressini, *Injection of vasopressin, *Vasopressin.) (10 units (PRESSOR) per mil.)
(Labelling controlled by Therap. Subst. Act, but Sch. 7 (1) notice is additional.)

†Kombe Strophanthin. (S.1.) (4)
(†Strophanthin.)

Lead plaster. (S.1.) (6)
(Crude LEAD OLEATE.)
(Ex. A. in machine-spread plasters.)

" Leucarsone." (S.1.) (4)
(*CARBARSONE.)

Liq. arseni et hydrargyri iodidi. (S.1.) (6)
(ARSENIC TRIIODIDE, 1% w/v and Red MERCURIC IODIDE, 1% w/v.)
(*v.* Donovan's Solution.)

Liq. epispasticus. (S.1.) (6)
(CANTHARIDIN, 0.4% w/v.)
(*v.* Blistering liquid.)

†Liq. glyc. trinit. (P.I.) (9)
(†Liquor glycerylis trinitratis, †Solution of glyceryl trinitrate, †Solution of trinitrin, †Solution of nitroglycerin, †Spiritus glycerylis nitratis.)

†Liq. opii camph. conc. (S.1.) (D.D.) (1)
(†Liquor opii camphoratus concentratus, †Concentrated camphorated solution of opium.)
(*v.* **Tinct. opii camph. conc.**; no longer official synonym.)

Liq. pituitarii. (P.I.) (13) (Sch. 7 (1).)
(No longer B.P. synonym.)
(*v.* *Inj. pituit. post.)

†Liq. trinitrini. (P.I.) (9). (†Solution of trinitrin.)
(*v.* † Liq. glyc. trinit.)

†Lobelia. (P.I.) (8)
(†Lobel., †Lobeliæ herba, I.A., †Indian tobacco.)

Lotio hydrargyri nigra. (P.I.) (12)
(MERCUROUS OXIDE, 0.62% w/v.)
(*v.* Black Wash, Black mercurial lotion.)

***Methylphenobarbitone. (S.1.) (Rx only) (2)**
(*Methylphenbarbitonum, *Methylphenobarbiton., *Phemitonum, *Phemitone.)
(*v.* **" Prominal."**)

†Methylsulphonal. (S.1.) (Rx only) (2)
(*v.* **Dithan, " Trional."**)

***Morph. tart. (S.1.) (D.D.) (1)**
(*Morphinæ tartras, *Morphine tartrate.)
(Ex. D.D. and Ex. S.1 under 0.27%

***Nux vomica præparata. (S.1.) (5)**
(*Nux. vom. præp., *Prepared nux vomica, *Nux vomica pulverata.)
(Ex. S.1 diluted over 1 in 6.)
(Powdered nux vomica and Pulvis nucis vomica are no longer B.P. synonyms. *See* **Nucis vomicæ pulvis.**)

***Nucis vomicæ pulvis. (S.1.) (4)**
(When 'Nux vomica' or 'Nucis vomicæ pulvis' is prescribed Nux vomica præparata shall be dispensed. B.P. 1948, p. 362.)

***Opium. (S.1.) (D.D.) (1)**
(*Raw opium.)
(When 'Opium' is prescribed, Opium pulveratum shall be dispensed, B.P. 1948, p. 387.)

***Opium pulveratum. (S.1.) (D.D.) (1)**
(*Opium pulverat., *Powdered opium, *Pulvis opii.)
(Ex. D.D and Ex. S.1 in dilutions over 1 in 50.)

***Ouabain. (S.1.) (4)**
(*Ouabainum, *Strophanthin-G.)

*Oxytocin. (P.I.) (13) (Sch. 7 (1).)
(*See* *Inj. oxytoc. for labelling provisions.)
(10 (OXYTOCIC) units per mil).

***Papaverine hydrochloride. (S.1.) (4).**
(*Papaverinæ hydrochloridum, *Papaver. hydrochlor.)

***Pentobarbitone sodium. (S.1.) (Rx only) (2)**
(*Pentobarbitonum sodium, *Pentobarbiton. sod., *Pentobarbitonum solubile, *Soluble pentobarbitone, *Pentobarbital sodium.)
(*v.* **Nembutal"** in *C. & D.* "Poisons Guide.")

***Pentobarbital sodium. (S.1.) (Rx only) (2)**
(*v.* ***Pentobarbitone sodium.)**
"Pentothal sodium." (S.1.) (Rx only) (2)
(*v.* *THIOPENTONE SODIUM.)

***Pethidine hydrochloride. (S.1.) (D.D.) (1)**
(*Pethidinæ hydrochloridum, *Pethidin. hydrochlor.)
(*v.* **"Demerol," "Dolantin," "Dolatal."**)

***Phenobarbital sodium. (S.1.) (Rx only) (2)**
(*Phenobarbitone sodium.)

***Phenobarbitone sodium. (S.1.) (Rx only) (2)**
(*Phenobarbitonum sodium, *Phenobarb. sod., *Phenobarbitonum solubile, *Soluble phenobarbitone, *Phenobarbital sodium.)
(*v.* **"Gardenal sodium," "Luminal sodium," "Somonal sodium."**)

†Picric acid. (P.I.) (8)
(†Trinitrophenol, †Acidum picricum, †Carbazotic acid.)
(Ex. A. under 5%.)

***Picrotoxin. (S.1.) (4)**
(*Picrotoxinum, *Picrotox.)

*Plumbi acetas. (P.I.) (8)
(*Lead acetate, *Plumb. acet., †Sugar of Lead.)
(Ex. A. in preps. with less than 4%.)

†Potassa caustica. (P.II.) (15) (Sch. 7 (5).)
(*Potassium hydroxide, *Caustic potash.)

*Procaine hydrochloride, Sterile solution of (2 per cent. w/v.) (P.I.) (9)
(Pro *Inj. procain. et adrenal. mit., B.P. 1948, p. 278. Label as specified in the monograph adding "B.P." to title.)
(*v.* *Inj procain. et adrenal. mit.)

"Prominal." (S.1.) (Rx only) (2)
(*METHYLPHENOBARBITONE. *PHEMITONE.)

*Protamine zinc insulin. (P.I.) (13) (Sch. 7 (1).)
(*See* *Inj. insulin. protaminat. c. zinc. for labelling provisions.)

Pulv. ipecac. co., B.P. 1914, and B.P. 1932, Addendum VII (Geneva Convention.) (S.1.) (6) (Ex. D.D.)
(Contains POWDERED OPIUM, B.P., 10% w/w.)
(Powder of ipecacuanha and opium prepared with potassium sulphate as diluent is no longer an official B.P. preparation.)

***Pulvis opii. (S.1.) (D.D.) (1)**
(*v.* ***Opium pulveratum.)**

Resin plaster. (S.1.) (6)
(Contains crude LEAD OLEATE, 85% w/w.)
(*v.* **Emp. colophoni.)**

†Sp. glycerylis nitratis. (P.I.) (9)
(*v.* †Liq. glyc. trinit.)

†Strophanthin. (S.1.) (4)
(†Kombe Strophanthin, †K-Strophanthin.)

***Strophanthin-G. (S.1.) (4)**
(*v.* ***Ouabain.)**

***Succinylsulphathiazole. (S.1.) (Rx only) (2)**
(*Succinylsulphathiazolum, *Succinylsulphathiazol.
(*v.* **"Colistatin," "Sulfasuxidine."**)

***Sulphacetamide. (S.1.) (Rx only) (2)**
(*Sulphacetamidum, *Sulphacetamid.)
(*v.* **"Albucid," "Steramide," "Sulamyd," "Sulfacet," Sulfacetamide.)**

***Sulphacetamide sodium. (S.1.) (Rx only) (2)**
(*Sulphacetamidum sodium, *Sulphacetamid. sod. *Sulphacetamidum solubile, *Soluble sulphacetamide.)

***Sulphadiazine. (S.1.) (Rx only) (2)**
(*Sulphadiazina, *Sulphadiazin.)

***Sulphadiazine sodium. (S.1.) (Rx only) (2)**
(*Sulphadiazina sodium, *Sulphadiazin. sod., *Sulphadiazina solubilis, *Soluble sulphadiazine.)

***Sulphaguanidine. (S.1.) (Rx only) (2)**
(†Sulphaguanidina, *Sulphaguanidin.)
(*v.* **"Guamide," Sulphanilylguanidine.)**

***Sulphathiazole. (S.1.) (Rx only) (2)**
(*Sulphathiazolum, *Sulphathiazol.)
(*v.* **"Ciba 3714," "Cibazol," "Eleudron," "M. & B. 760," "Neostropan," "R.P. 2090," "Thiazamide."**)

***Sulphathiazole sodium. (S.1.) (Rx only) (2)**
(*Sulphathiazolum sodium, *Sulphathiazol. sod., *Sulphathiazolum solubile, *Soluble sulphathiazole.)

***Supp. cocainæ. (S.1.) (D.D.) (1)**
(COCAINE HYDROCHLORIDE, gr. ¼ in each.)

Suppos. plumbi cum opio., B.P. 1932. (S.1.) (6)
(Ex. D.D.)
(LEAD ACETATE, gr. 3, and OPIUM, B.P., gr. 1 in each.)
(Exempted by Fourth Schedule to the D.D. Regulations, 1937.)

Syr. Eastoni. (*See* Easton's syrup.)

Syr. ferr. phosph. c. quinin. et strych. (P.I.) (Ex. S.1) (10) and (13), (STRYCHNINE HYDROCHLORIDE, gr. 1/60 in 1 fl. dr.)
(*v.* Easton's Syrup.)

Syr. ferr. phosph. c. strych. (P.I.) (Ex. S.1.) (10) (STRYCHNINE HYDROCHLORIDE, gr. 1/60 in fl. dr.)
(Easton's Syrup without Quinine; no longer official substitute for Easton's Syrup.)

***Tab. acid. acetylsalicyl. c. ipecac. et opio. (S.1.) (5)** (Ex. D.D.)
(*Tabellæ acidi acetylsalicyllci cum ipecacuanha et opio, *Tablets of acetylsalicylic acid with ipecacuanha and opium, *Tabellæ acidi acetylsalicylici et opii, *Tablets of Aspirin and Dover's Powder.)
(PULV. IPECAC. ET. OPII, B.P., gr. 2½ in each.)

***Tab. Aspirin and Dover's Powder. (S.1.) (5)** (Ex. D.D.)
(DOVER'S POWDER, B.P., gr. 2½ in each.)
(*v.* *Tab. acid. acetylsalicyl. c. ipecac. et opio.)
*Tablets of Aspirin, Phenacetin and Codeine. (P.I.) (9) (Ex. S.1.) (Ex. D.D.)
(*v.* *Tab. codein. co.)

***Tab. atrop. sulph. (S.1.) (5)** (CODEINE PHOSPHATE, gr. ⅛ in each.)
(*Tabellæ atropinæ sulphatis, *Tablets of atropine sulphate.)
(B.P. doses, 0.25 to 1 mgm., 1/240 to 1/60 gr.)
(DISPENSE, gr. 1/100 in each.)

***Tab. barbiton. (S.1.) (Rx only) (2)**
(*Tabellæ barbitoni, *Tablets of barbitone, *Barbital tablets.)
(B.P. doses, 0.3 to 0.6 gm., 5 to 10 gr.)
(State amount of BARBITONE in each tablet.)

***Tab. barbiton. sod. (S.1.) (Rx only) (2)**
(*Tabellæ barbitoni sodii, *Tablets of barbitone sodium, *Tablets of soluble barbitone, *Barbital sodium tablets.)
(B.P. doses, 0.3 to 0.6 gm., 5 to 10 gr.)
(State amount of BARBITONE SODIUM in each tablet.)

*Tab. codein. co. (P.I.) (9) (Ex. S.1.) (Ex. D.D.)
(*Tabellæ codeinæ compositæ, *Compound tablets of codeine, *Tablets of Aspirin, Phenacetin and Codeine.)
(CODEINE PHOSPHATE, gr. ⅛ in each.)

***Tab. codein. phosph. (S.1.) (5)** (Ex. D.D.)
(*Tabellæ codeinæ phosphatis, *Tablets of codeine phosphate.)
(B.P. doses, 10 to 60 mgm., ⅙ to 1 gr.)
(DISPENSE, gr. ½ in each.)

***Tab. digit. præp. (S.1.) (5)**
(*Tabellæ digitalis præparatæ, *Tablets of prepared digitalis, *Tabellæ digitalis, *Digitalis tablets.)
(B.P. doses, 30 to 100 mgm., ½ to 1½ gr.)
(DISPENSE, gr. 1 in each.)

***Tab. digoxin. (S.1.) (5)**
(*Tabellæ digoxini, *Tablets of digoxin.)
(B.P. doses, Initial, 1 to 1.5 mgm., 1/60 to 1/40 gr. Maintenance (one or twice daily), 0.25 mgm., 1/240 gr.)
(DISPENSE, 0.25 mgm. in each.)

*Tab. ephed. hydrochlor. (P.I.) (13)
(*Tabellæ ephedrinæ hydrochloridi, *Tablets of ephedrine hydrochloride.)
(B.P. Doses, 16 to 60 mgm., ¼ to 1 gr.)
(DISPENSE, gr. ½ in each.)

***Tab. ergot, præp. (S.1.) (5)**
(*Tabellæ ergotæ præparatæ, *Tablets of prepared ergot.)
(B.P. doses, 0.15 to 0.5 gr., 2½ to 8 gr.)
(DISPENSE, gr. 2½ in each.)

*Tab. glyc. trinit. (P.I.) (13)
(*Tabellæ glycerylis trinitratis, *Tablets of glyceryl trinitrate, *Tabellæ trinitrini, *Trinitrin tablets, *Nitroglycerin tablets.)
(B.P. doses, 0.5 to 1 mgm., 1/130 to 1/60 gr.)
(DISPENSE, gr. 1/130 in each.)

***Tab. ipecac. et opii. (S.1.) (5)** (Ex. D.D.)
(*Tabellæ ipecacuanha et opii, *Tablets of ipecacuanha and opium, *Tabellæ pulveris ipecacuanhæ et opii, *Tablets of powder of ipecacuanha and opium, *Tabellæ pulveris opii et ipecacuanhæ compositæ, I.A., *Tabellæ pulveris ipecacuanhæ co., *Tablets of compound powder of ipecacuanha, *Dover's Powder Tablets.)
(B.P. doses, 0.3 to 0.6 gm., 5 to 10 gr.)
(DISPENSE, gr. 5 in each.)
(State amount of PULV. IPECAC. ET OPII in each tablet.)

***Tab. phenobarbiton. (S.1.) (Rx only) (2)**
(*Tabellæ phenobarbitoni, *Tablets of phenobarbitone, *Phenobarbital tablets.)
(B.P. doses, 30 to 120 mgm., ½ to 2 gr.)
(State amount of PHENOBARBITONE per tablet.)

***Tab. pulveris ipecacuanhæ et opii (S.1.) (5)**
(Ex. D.D.)
(*See* *Tab. ipecac. et opii.)

***Tab. succinylsulphathiazol. (S.1.) (Rx only) (2)**
(*Tabellæ succinylsulphathiazoli, *Tablets of succinylsulphathiazole.)
(B.P. doses, 3 to 6 gm., 45 to 90 gr.)
(State amount of SUCCINYLSULPHATHIAZOLE in each tablet.)

Tab. sulphadiazin. (S.1.) (Rx only) (2)
(Tabellæ sulphadiazinæ, Tablets of sulphadiazine.)
(B.P. doses, Initial, 2 gm., 30 gr. Subsequent, 1 gm., 15 gr. every four hours.)
(State amount of SULPHADIAZINE in each tablet.)

***Tab. sulphaguanidin. (S.1.) (Rx only) (2)**
(Tab. sulphaguanidinæ, Tablets of sulphaguanidine.)
(B.P. doses, 2 to 4 gm., 30 to 60 gr.)
(State amount of SULPHAGUANIDINE per tablet.)

***Tab. sulphanilamid. (S.1.) (Rx only) (2)**
(*Tabellæ sulphanilamidi, *Tablets of sulphanilamide.)
(B.P. doses, Initial, 2 gm., 30 gr. Subsequent, 1 gm., 15 gr. every four hours.)
(State amount of SULPHANILAMIDE per tablet.)

***Tab. sulphathiazol. (S.1.) (Rx only) (2)**
(*Tabellæ sulphathiazoli, *Tablets of sulphathiazole.)
(B.P. doses, Initial, 2 gm., 30 gr. Subsequent, 1 gm., 15 gr., every four hours.)
(State amount of SULPHATHIAZOLE per tablet.)

*Tab. thyroid. (P.I.) (13) (Sch. 7 (1))
(*Tabellæ thyroidei, *Tablets of thyroid.)
(B.P. doses, 30 to 120 mgm. ½ to 2 gr.)
(DISPENSE, gr. ½ in each.)

†Tartarated antimony. (S.1.) (4)
(*v.* Antim. et pot tart.)

***Thiopentone sodium. (S.1.) (Rx only) (2)**
(*Thiopentonum sodium, *Thiopent. sod., *Thiopentnum solubile, *Soluble thiopentone, *Thiopental sodium.)
(*v.* "Pentothal sodium.")

†Thyroxine-sodium. (P.I.) (8)
(Made-up preps. label as Sch. 7 (1).)

Tincť. opii camph. conc.
(No longer official. *See* **†Liq. opii camph. conc.)**

*Trochisci acidi carbolici. (P.II.) (13)
(*v.* *Troch. phenol.)
(PHENOL, gr. ½ in each.)

*Troch. phenol. (P.II.) (13)
(*Trochisci phenolis, *Lozenges of Phenol, *Trochisci acidi carbolici.)
(PHENOL, gr. ½ in. each.)

*Ung. hydrarg. ammon. (P.I.) (9)
(*Unguentum hydrargyri ammoniati, *Ointment of ammoniated mercury, *Unguentum hydrargyri ammoniatum dilutum, *White precipitate ointment.)

*Unguentum, hydrargyri ammoniatum dilutum.
(*See* *Ung. hydrarg. ammon.)

PHARMACEUTICAL CONFERENCE SCIENCE PAPERS

(*Concluded from* The Chemist and Druggist, *September* 25, *p.* 418)

Structure of Indian Valerian

By T. E. Wallis and P. K. Sanyal

[Abstract]

The structural characters of Indian valerian, derived from *Valeriana wallichii* D.C., are described in detail. They are shown to consist of rhizomatose and stoloniform parts united into a single sub-cylindrical "rhizome," which bears numerous roots or is marked by the circular root scars. Some commercial specimens contain an abundance of starch, others none; there is no other visible difference. Minute droplets of oil are present in all parts of the drug except the exodermis of the roots. Roots from the older rhizomatose portions exhibit typical secondary development, with a cylindrical woody core and lignified pith. The stele may be oval or round in section and tetrarch to polyarch in its primary structure. The stoloniform portions differ in structure from the rhizomatose parts, chiefly in having no roots. Secondary development is well marked, and the number of vascular bundles is greater than in the rhizomatose parts. The diagnostic characters by which the powder may be recognised and distinguished from that of European valerian are given by the authors in the paper. (From the museum of the Pharmaceutical Society).

The paper was read by Dr. Wallis, who said his co-worker had returned to India after securing his doctorate.

Discussion

Dr. J. M. Rowson paid tribute to the excellence of the sketches. He was intrigued by the absence of starch. Were there starch-free samples in all the sources, he asked?

Dr. Wallis, in winding up the discussion, to which contributions were made by Messrs. Walker, Short, Fairbain and Oliver, said that although the drug was that day rendered unofficial by the coming into operation of the new B.P., it was still of importance from other points of view and would shortly become official in India. The diagrams, he said, had all been done by Dr. Sanyal. Not all samples showed starch-containing and starch-free cells in the rhizome, and the presence or absence of starch might be due to the season at which the collection of the rhizome was made. He had little information on the other points raised b speakers in the discussion.

Spectroscopy of Riboflavine

By C. Daglish, Nora Baxter and F. Wokes

[Abstract]

To determine the causes of and to eliminat variations in results in the spectroscopi assay of riboflavine, the absorption maxim and extinction co-efficients of riboflavin in solutions of different *p*H were determine (using a Medical Research Council standar and commercial samples). The absorptio curves were constant for three of the fou peaks between *p*H 3 and *p*H 7. Examinatio should be made at 267, 375 and 444 mμ at 223 mμ there is change of extinction wit slight *p*H shift. The stability of riboflavin in alkaline solutions in the dark depend upon concentration. The conversion t lumiflavine was followed spectroscopicall and lumiflavine shown to have a differen absorption curve. The yield of lumiflavin in irradiation experiments never reached 10 per cent., probably because there were othe decomposition products. (From The Oval tine Research Laboratories).

The paper was read by Mr. Daglish.

Discussion

Mr. R. E. Stuckey, London, laid emphasis on the smaller attention previously paid to the effects of concentration and *p*H on spectrum values. Some concentration effects, he said, were due to ionisation.

Dr. G. E. Foster, Dartford, asked whether any test had been applied to determine whether the instrument used had contributed to the irradiation.

Mr. Daglish replied that he had not investigated the spectrum values, being primarily interested in devising an assay method for the pure substance. He described a test carried out to determine the amount of irradiation from the instrument, and said there had been no measurable effect in the short time taken up by the tests.

Vitamin B Complex

1. Assay by Microbiological Analysis

By G. E. Shaw

[Abstract]

The paper is based on experience obtained during the past few years in the micro-

biological assay of biotin, folic acid, riboflavine, nicotinic acid, pantothenic acid, pyridoxine, aneurine, and inositol in various liver and other preparations, and suggests methods for the avoidance of failures caused by the media used, the choice of organisms and their treatment, and the plan of experiment and method of reading the test. The organism must grow well in the presence of the factor under test (but not in its absence) in proportion, within limits, to the amount of growth factor present. The medium, when supplemented with the pure growth factor under test, must support the growth of the organism, but must be inadequate in the absence of the supplement. It is inadvisable to undertake microbiological analysis unless so many tests are to be performed that a routine technique can be acquired. . Detailed methods of procedure are suggested, and the author concludes that with proper attention to detail, failures are the exception rather than the rule. The concordance which exists between the microbiological findings for folic acid or aneurine in made-up solutions of known vitamin content with the quantities actually weighed out, engenders confidence in the validity of assays performed on preparations of natural origin. (From the Evans Biological Institute).

2. In Commercial Liver Extracts
[Abstract]

The amounts of several members of the vitamin B complex in different types of commercial liver extracts were determined by microbiological analysis. A table is given showing the levels of folic acid, riboflavine, nicotinic acid, calcium pantothenate, biotin, inositol, pyridoxine and aneurine in (1) proteolysed whole liver, (2) oral liver extracts, (3) "crude" parenteral liver extracts and (4) high potency liver extracts. Oral liver extracts were found to be usually richest in the B complex, and of them, proteolysed preparations the richest. Parenteral preparations usually regarded as "crude" were generally richer in the B complex than preparations regarded as highly purified. A wide variation in vitamin content was shown. (From the Evans Biological Institute).

Discussion

Discussion on the two papers, which were read by Mr. G. E. Shaw, were taken together. Replying to Dr. Foster, he said it was essential to maintain the *helveticus* strain by daily subculture on proteolysed liver containing agar and all the known vitamins. The night before use a broth culture should be made into a very rich medium. Next day a few drops should be removed and added to the broth. The opacity should be varied to produce a readable growth by the following afternoon. He had obtained best results by using a large room incubator where the temperature was not subject to such large variations. Dr. Cuthbertson said that high potency liver extracts were sold for the treatment of pernicious anæmia, not as vitamin preparations. Mr. Shaw agreed that there was no correlation between the presence of members of the vitamin B complex and the results in the treatment of pernicious anæmia, but liver extracts were now being used as a food supplement and such use seemed to have some justification. Replying to Mr. Gillam, Leeds, Mr. Shaw said he had tried assaying the vitamin B complex by an adaptation of the cup-plate method in which the zone of exhibition was measured, but the results had been unsatisfactory.

Dimercaprol in Iron Poisoning

By N. D. Edge and G. F. Somers

[Abstract]

Evidence has accumulated that the heavy metals are toxic because they form reversible mercaptides with the SH-groups of the protein enzyme systems, and that the enzyme inhibitions can generally be prevented by dimercaprol. Since fatalities have occurred in children following the unauthorised taking of ferrous sulphate tablets in large numbers, an investigation of the possible value of dimercaprol as an antidote in iron poisoning was undertaken. The tests were carried out on mice. The results showed that the toxicities of orally administered ferrous sulphate and ferric chloride were slightly increased by the administration of dimercaprol fifteen minutes after the dose of the iron salts. When, however, the administration of dimercaprol preceded that of the iron salts, a slight protective action was evident against ferrous sulphate but not against ferric chloride. Dimercaprol antagonised the toxic effects of mercury by this route. Against toxic doses of ferrous sulphate and ferric chloride by the intravenous route, prior treatment with dimercaprol by the same route increased rather than decreased the susceptibility of the mice. The toxicity of ferrous iron by the intravenous route was found to be increased by its combina-

tion with dimercaprol to form a complex. (From the research division, Glaxo Laboratories, Ltd.).

Dr. G. E. Foster asked Mr. Somers, who read the paper, whether he had been using pure dimercaprol or a preparation in arachis oil and benzyl benzoate. Mr. Somers said he had used an aqueous solution of dimercaprol as he wanted immediate action of the drugs. Dimercaprol and BAL were now recognised names for the pure substance. Replying to Mr. Shaw, Mr. Somers said the toxic effect of iron in infants seemed to be an irritant action in the stomach, causing hæmorrhage, vomiting and damage to the mucosa of the stomach. In animals, toxic doses of iron caused severe prostration and death was apparently due to shock. He hoped to continue work to determine whether much iron entered the circulation through the damaged mucosa.

Chemical Determination of Aneurine

By D. C. M. Adamson and F. P. Handisyde

[Abstract]

Fluorimetric and colorimetric assays of aneurine are highly specific but are adapted to the determination of micro-quantities of aneurine. A gravimetric assay based on the precipitation as the silicotungstate was investigated as a possible routine method of assay for aneurine in tablets and ampoule solutions. In pure solutions, it was found, 25 mgm. of aneurine may be determined with an accuracy of 98.5 to 101.5 per cent.; with 50 mgm. the limits are reduced to 99.2 to 100.8 per cent. No precipitate was given under the prescribed assay conditions by manufacturing intermediates and decomposition products of aneurine, nor by various cations and other vitamins. Errors due to co-precipitation or adsorption of various substances are assessed; and the effect of various experimental conditions (e.g., acidity, quantity of silicotungstic acid used, time of boiling and rate of addition of precipitant) reported. Suitable detailed procedures are recommended for the assay of aneurine in injection solutions and tablets. (From the analytical department, Roche Products, Ltd.).

Dr. D. G. Garratt, who congratulated the authors on their paper, asked whether they had used any particular brand of silicotungstic acid, as there were several on the market. He suggested that although the tablet excipients used in the test caused no precipitate, there might be other excipients that would do so. Aneurine tablets of unknown origin, he suggested, should be assayed by the same process as had been used officially for the original aneurine. Mr. T. D. Whittet asked whether any constituent of urine would upset the test. Mr. F. P. Handisyde, who read the paper, replied that a commercial sample of silicotungstic acid had been used; its exact composition was not known but there had been no evidence of variation in several deliveries from the same source. The partnership of the authors had been terminated before other tablet excipients could be tried, but he hoped more work on them would be done. Mr. D. C. M. Adamson, replying to Dr. Garratt, said the thiochrome method was not satisfactory; perhaps the new method might prove of use as an official method of assay in the near future. Replying to Mr. Whittet, he said the method required the presence of comparatively large quantities of aneurine and was not suitable for the small amounts likely to be present in urine.

Determination of Aromatic Di-Amidines

Part I. Colorimetric Determination of Propamidine

By C. W. Ballard

[Abstract]

Fuller's colorimetric method for the determination of amidines, based on the reaction between aromatic amidines and glyoxal to give a magenta coloured product, was applied to the determination of propamidine in pharmaceutical preparations. Possible sources of error were investigated and work done to determine the modifications of the method and the precautions required to obtain more precise results. Two detailed methods, suitable for certain water-miscible preparations of propamidine, are described. For a water-immiscible cream, prior extraction of the amidine was necessary, and was accomplished by boiling with very dilute hydrochloric acid. No hydrolysis of amidine occurred; complete extraction could not be effected without obtaining a solution too dilute for colorimetric examination. (From the Analytical Control Division, May & Baker, Ltd.).

Dr. N. L. Allport asked for further information on the efforts to find a solvent for the coloured compound produced by the reaction. Had other organic bases such as ethylene diamene or triethanolamine been tried, or an aqueous solution of urethane? Mr. Ballard replied that

he had tried a great many possible solvents, of which the one chosen had proved the most satisfactory.

Iodinated Proteins and Dried Thyroid

By R. K. Lewis and W. Smith
[Abstract]

It has been suggested that iodinated proteins have been offered for sale as thyroid powder or used for its adulteration, and the difference in analytical characters between thyroid powder and iodinated proteins was investigated. Where iodinated proteins, which contain more acid-insoluble iodine than thyroid, are used as an adulterant, it seemed probable that the total iodine would be increased to a much greater amount than is present in thyroid and that the percentage of calcium and phosphorus present might be useful indications of adulteration. Samples of thyroid powder were submitted to analysis for total iodine and thyroxine iodine, and samples of proteins that might be iodinated were analysed for nitrogen, calcium and phosphorus and compared with genuine thyroid powders. The results indicated that the percentage ratio of acid-soluble iodine to total iodine was, in the majority of instances, lower in the iodinated proteins than in thyroid, but there was no clear cut distinction, and the figure cannot be used as an infallible indication of the presence of iodinated casein. If the ratio is less than 20 per cent. the sample is almost certainly not genuine thyroid. (From the laboratories of Allen & Hanburys, Ltd.).

Mr. B. A. Bull took the chair while Dr. Norman Evers read the paper and replied to discussion.

Dr. D. G. Garratt said that in the last few years he had had to analyse samples of thyroid for thyroxine iodine and iodine content, and in thirty-two samples analysed, the ratio of thyroxine iodine to iodine had been 33:61. There was no really satisfactory method of estimating inorganic iodine but the value was always low. Iodinated proteins might have a high inorganic iodine content. Dr. Foster said that in his laboratories a sample of dried thyroid believed to be adulterated had been examined but had seemed to comply with Pharmacopœial requirements. No adulteration was revealed on microscopic examination. Biological tests on tadpoles carried out on the sample in another laboratory had shown no evidence of adulteration. Dr. Foster suggested as a possible safeguard against adulteration that licensed establishments should be inspected. Dr. Evers, replying, thanked Dr. Garratt for his supplying results that tended to confirm those of the authors. Investigations into inorganic iodine had not been carried out.

ZANZIBAR CLOVES

Supplies of cloves passing through the Zanzibar central market and the Association's depot during the quarter ended June 30 amounted to 1,443,625 lb. (equal to 10,312 standard bales of 140 lb. net). Of this total, 128,574 lb. (8.91 per cent.) was the produce of Zanzibar, and 1,315,051 lb. (91.09 per cent.) the produce of Pemba. These conclude the seasonal year ending June 30, at a total of 10,916,496 lb., or 311,900 frasilas (4,873 tons), Pemba having produced 90.09 per cent. The crop year has been a very poor one. Estimates for the forthcoming 1948-49 season for the Protectorate indicate that not more than four to five lakhs frasilas can be expected, and earlier anticipations of a large crop are likely to be disappointed. Of the quarter's total supplies, 1,039,509 lb. passed through the Zanzibar central market, 26,816 lb. through the Association's depot, and 377,300 lb. were purchased by the Association. The quarter's exports reached the considerable figure of 10,692,491 lb. June shipments totalled 7,979,666 lb., constituting almost a record month, having been exceeded only once previously, in October 1946. Information was received in June that licenses for clove imports to India had been freely granted for the January-June period. One direct shipment of 2,400 bales to Java was made at the end of May. The U.S.A. continued to show no interest in Zanzibar cloves. Clove duty was unchanged at Shs. 11 per 100 lb. to June 30, but from July 1 this was increased by Shs. 3 per 100 lb., owing to a higher valuation assessed for cloves, in accordance with the Customs Tariff Decree.

Stems arrivals during the quarter were insignificant, totalling only 36,293 lb. Such a decline in supplies is, of course, usual between seasons. The total of arrivals taken into stock for the seasonal year July 1947 to June 1948 was 1,427,533 lb. During the April to June period distillery operations absorbed 1,859,972 lb. stems, and 26,229 lb. cloves.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade

28 Essex Street, W.C.2, Sept. 29

THE improvement in home trade in PHARMACEUTICAL and FINE CHEMICALS continues. Among other products, CAFFEINE, PHENOBARBITONE and the SALICYLATES have attracted a moderately heavy buying interest, while an appreciable request has been received for the pharmaceutical grade of BENZYL BENZOATE. Home-trade prices generally are unchanged. A substantial export trade has been done with India and the Scandinavian countries in a wide range of chemical products.

Although still confined in extent to a comparatively small number of articles, trade in CRUDE DRUGS is showing signs of improvement. A fair to good export inquiry has been received for Cape ALOES, Tinnevelly SENNA and RHUBARB, and a moderate business has been done. Inquiry has also been received for BALSAMS COPAIBA and PERU, GUM ACACIA and MYRRH. The demand for CARDAMOMS has continued, and it is understood that spot stocks are low. CASCARA SAGRADA is a dull market. African GINGER continues firm on spot and forward prices are rising. PEPPER is a very firm market. Reports from Amsterdam state the Netherlands Indies pepper crop will be small and that stocks held in the principal producing areas are low. A fair business has been done in MENTHOL at former prices.

Business in ESSENTIAL OILS has been small and prices are without appreciable change on the week. There has been a fair inquiry for PATCHOULI OIL, of which there is little on spot. Forward quotations for Singapore oil are in the region of 21s. per lb., c.i.f. A recently landed shipment of Penang oil was at 17s. to 18s. per lb., c.i.f. No news is available yet of new-crop French Lavender oil. The Minister of Food announces that no changes will be made in the prices of UNREFINED OILS and FATS, etc., allocated to primary wholesalers and large trade users during the five-week period ending October 30.

U.S. Drug and Chemical Report

New York, September 24

THE trend in the FINE CHEMICALS market continues upward and business in PHARMACEUTICAL CHEMICALS is said to be good due to the "backlog" of orders held by several producers. It is expected that higher prices will shortly be announced for CADMIUM DERIVATIVES because of higher production costs. Meanwhile, the BISMUTH SALTS increases announced by two major producers earlier this month have now become general throughout the trade. The full effect of SYNTHETIC GLYCERIN production is not likely to be felt for some week yet while demand for the natural produc is reported to be sufficient to absorb mos of current production. Upward pric adjustments in SODIUM and CALCIUM IODIDE are expected to follow the increase announced last week for POTASSIUM IODIDE and IODINE. A strong export demand stil exists for STREPTOMYCIN and domestic con sumption is increasing. CAMPHOR, MENTHOL and EPHEDRINE remain quiet. It is reported that production of BALSAM PERU will shortly be placed under Governmen control and prices on the market her have been advanced sharply as a result Compared with an inside price of 76 cents per lb. last week the material is not now obtainable on the market below 88 cents Reports that minimum export prices for Madagascar VANILLA BEANS have been lowered have resulted in some confusion on the market and prices for most varieties have been reduced over the past few days. The unsettled conditions in CARNAUBA WAX still persist and certain trade factors still insist that the Brazilian minimum export prices will have to be reduced if there is not to be a large changeover by consumers to substitutes. Numerous SPICES were lower in price, including East Indian MACE and certain varieties of PEPPER. Forward buying remains very limited.

Most ESSENTIAL OILS remained steady over the past week with buying reported in moderate volume in comparison with activity over the past few months. There is considerable uncertainty about the future developments in MINT OILS; domestic purchases have accounted for a substantial volume but export business has been negligible due to dollar shortages. Any foreign inquiry would probably have an immediate hardening effect on prices. Meanwhile, the Bureau of Agriculture has estimated domestic PEPPERMINT production at 1,427,000 lb., 11 per cent. below last year's total but 31 per cent. above average production. AROMATIC CHEMICALS are being advanced in price in reflection of higher BOIS DE ROSE OIL costs.

Pharmaceutical Chemicals

AMIDOPYRINE.—Merchants are quoting prices from 45s. to 50s. per lb. for supplies for prompt delivery.

CAFFEINE.—Steady. Home and export trade demand has been brisk. Makers' rates per lb. for 1-cwt. lots are: ALKALOID, anhydrous, 35s. 6d., and B.P., 33s. 6d.; CITRATE, 22s.; SODIUM BENZOATE, B.P., 22s. 6d.; SODIUM SALICYLATE, B.P.C., 23s. 3d.; SODIUM IODIDE, 26s. 56-lb. lots are 1s. per lb. more than above rates; 28-lb., 1s. more than for 56-lb.

CREOSOTE, B.P.—Ex beechwood, French is offered at about 7s. to 7s. 9d., and Swedish at 8s. to 8s. 3d. per lb. In good inquiry.

DIAMORPHINE.—Home trade rates, per oz.: ALKALOID, ½ oz., 54s. 6d.; 1 oz., 52s.; 2 oz., 50s. 6d.; 3 oz., 49s. 9d.; 4 oz., 49s. 6d. HYDROCHLORIDE, ½ oz., 50s. 3d.; 1 oz., 47s. 9d.; 2 oz., 46s. 3d.; 3 oz., 45s. 6d.; 4 oz., 45s. 3d. per oz.

DIGITOXIN.—Current quotations are in the region of 110s. per gm.

EPHEDRINE.—Quotations for the ALKALOID are at from 10s. 6d. to 12s. per oz., as to quantity and seller. HYDROCHLORIDE is quoted at from 7s. 3d. to 8s. and SULPHATE at 8s. to 8s. 6d. per oz.

GUAIACOLS. — Liquid quoted at from 14s. 6d. to 16s. per lb., and crystal and carbonate, 14s. to 15s., according to quantity.

HEXAMINE.—B.P. is quoted at from 1s. 8d. to 2s. per lb., as to quantity.

HYDROQUINONE.—Bulk rates are as follows: 10-cwt., 9s. 6d.; 5-cwt., 9s. 9d.; 1-cwt., 10s.; 28-lb., 11s.; 14-lb., 11s. 3d.; 7-lb., 11s. 6d. per lb. Carriage paid in U.K.

HYOSCINE HYDROBROMIDE. — Makers' prices are from 115s. to 125s. per oz., according to quantity.

ICTHAMMOL, B.P.—Supplies in drums are quoted from 3s. to 3s. 6d. and upwards; in 28-lb. tins, 3s. 9d. to 3s. 10d.; in 1-lb. tins, 4s. to 4s 6d. per lb., as to seller.

IODIDES.—Prices (per lb.) of minor iodides are as follows: AMMONIUM, B.P.C., 7-lb., 15s. 9d., smalls, 16s. 3d.; ARSENIC (triodide), B.P., 28s. 6d.; CADMIUM, B.P.C., 22s.; CALCIUM, B.P.C., 19s.; ETHYL, 28s.; IRON, B.P.C., 14s.; LEAD, B.P.C., powder, 18s.; LITHIUM, B.P.C., 20s. 3d.; STRONTIUM, B.P.C., 18s. 6d.; ZINC, B.P.C., 19s. 3d.; MERCURIC, B.P., 7-lb., 14s. 3d., smalls, 14s. 9d.; MERCUROUS, B.P.C., green or yellow, 7-lb., 18s. 6d.; smalls, 19s.

METOL.—Prices for quantities: 10-cwt., 19s.; 5-cwt., 19s. 6d.; 1-cwt., 20s.; 28-lb., 21s.; 14-lb., 23s.; 7 lb., 24s. per lb. Carriage paid in the United Kingdom.

PEPTONE. — Importers' quotations are from 13s. to 15s. per lb., as to quantity.

PHOSPHATES.—Makers' rates per lb. are as follows: SODIUM, B.P., 1 cwt., 6d.; 28 lb., 7½d. SODIUM ACID, B.P., crystals, 1 cwt., 1s. 9d., 28 lb., 2s. POTASSIUM, granular, 4s. 2d.; powder, 4s. 5d. per lb. AMMONIUM, B.P.C., 1 cwt., 2s. 6d.; 28 lb., 2s. 10d. per lb. PHOSPHORIC ACID, B.P. (Concentrated) is priced at from 1s 2d. to 1s. 3d. in carboys, and from 1s. 5d. to 1s. 9d. per lb. in winchesters.

PILOCARPINE.—Makers' prices are unchanged. Rates per oz. are: ALKALOID.—1 oz., 36s. 9d.; 4 oz., 35s. 3d.; 25 oz., 34s. HYDROCHLORIDE.—1 oz., 34s. 9d.; 4 oz., 33s. 3d.; 25 oz., 32s. NITRATE.—1 oz., 33s. 3d.; 4 oz., 31s. 9d.; 25 oz., 30s. 6d.

PIPERAZINE. — Current prices from 4s. 6d. per oz., according to quantity.

POTASSIUM ACETATE, B.P.—Fine granular is 2s. 1½d. per lb. in 1-cwt. lots.

QUININE.—Makers' rates (per oz.) to distributors are given below; additional charges must be added for repacking, etc. ALKALOID, from 5s. to 5s. 6d.; ACETYLSALICYLATE, 6s. to 6s. 6d.; BISULPHATE, 3s. 7d. to 4s. 1d.; DIHYDROBROMIDE and DIHYDROCHLORIDE, 4s. 11d. to 5s. 5d.; FORMATE, 5s. 9d. to 6s. 3d.; GLYCEROPHOSPHATE and PHOSPHATE, 5s. 5d. to 5s. 11d.; HYDROBROMIDE and HYDROCHLORIDE, 4s. 6d. to 5s.; SALICYLATE, 4s. 8d. to 5s. 2d.; SULPHATE, 4s. to 4s. 6d.; QUININE AND UREA HYDROCHLORIDE is quoted from 4s. 10d. to 5s. 4d.

SALOL, B.P.C..—Current quotations for quantities of 28 lb. to 1 cwt. are from 9s. to 9s. 4d. per lb., according to pack. Prices for larger quantities are around 7s. 6d. to 8s. per lb.

SANTONIN.—Supplies are scarce; 5 kilos, £44 per kilo; less than 5 kilos, £45; 1 kilo, £46; half-kilo, £47; quarter-kilo, £48 per kilo; carriage paid in U.K.

SODIUM SALICYLATE.—In good request. Makers' price for 1 cwt. is 2s. 7d. per lb.; resellers' rates per lb. (containers in brackets) in the home market as follows: 28 lb. and under 1 cwt., 3s. 4d. (7-lb.); 3s. 3d. (2-lb.); 3s. 2½d. (4-lb.); 3s. 1½d. (7-lb.); 3s. 1d. (14-lb.); 3s. (28-lb.). Net one month.

STEARATES.—Current rates per cwt. in 1-cwt. lots are as follows: ALUMINIUM, 235s. 6d.; CALCIUM, 217s. 6d.; MAGNESIUM, 237s. 6d.; LEAD, 240s. 6d.; ZINC, 222s. 6d. 5 cwt. lots are 2s. 6d. per cwt. less and 1-ton lots 7s. 6d. less per cwt. than above prices. Carriage paid in U.K.; packing free.

SULPHONAL.—Quoted from 44s. to 53s. per lb., as to quantity.

TARTARIC ACID, B.P.—Steady. Makers' quotations per cwt. are: 1-cwt. lots, 218s.; 2-4 cwt., 216s.; 5-9 cwt., 214s.; 10-cwt. and over, 212s., delivered.

Liquid Glucose

UNDER the Glucose (Control and Maximum Prices) Order, 1948, (S.I. 1948, No. 2113), which comes into operation on October 10, the maximum prices of liquid glucose on all sales are increased by 14s. per cwt. The maximum price, on a sale by a distributing dealer who breaks liquid glucose down from a large container into smaller ones, is further increased by amounts varying from 2s. 9d. to 11s. 3d. per cwt. according to the smallness of the ultimate containers. The permitted addition to the maximum price of liquid glucose, for each degree Beaumé by which its density exceeds 43° is raised from 1s. to 1s. 3d., and the compulsory deduction, for each degree Beaumé by which it is less than 43°, is raised from 10½d. to 1s. 3d.

Crude Drugs

ACONITE.—Prices are unchanged. Indian on spot is quoted at 300s. per cwt.; *Napellus*, 3s. 10½d. to 4s. 3d., duty paid, according to holder.

AGAR.—Japanese strip, 16s. to 18s. per lb., duty paid; forward, 15s. to 16s., c.i.f. South African powder, in tins in cases, is available at 20s. per lb.

ALOES. — Fair export inquiry. Cape, prime quality, spot, 130s. per cwt.; forward, 116s. to 120s., c.i.f., as to quality. Curaçao in boxes, 200s. to 220s. per cwt., as to quality; shipment, 200s., c.i.f. Socotrine, 160s. to 180s. per cwt., spot.

ANTIMONY.—Metal prices are: 99.6 per cent., regulus, £210 per ton, delivered; 99 per cent., £200; 70 per cent. crude, £165.

ARECA NUTS.—Ceylon is offering ex warehouse, London, at 45s. per cwt.

ARNICA.—Spot stocks of flowers are offered at prices from 1s. 9d. to 2s. 6d. per lb.

ASAFETIDA.—Steady. Persian block is offered at from £15 to £24 per cwt., spot.

BALSAMS.—Spot quotations for *Canada* are from 17s. 6d. to 19s. per lb. Pará *Copaiba* (soluble) is offered at 4s. 9d. to 5s. per lb., spot; Maranham, spot, 6s. 6d., nominal. San Salvador, *Peru*, is quoted at from 4s. 9d. to 5s. 3d. per lb., duty paid. *Tolu*, 15s. 6d. per lb, spot; 13s. 9d., c.i.f.

BAY LEAVES. — Quotations are steady from 11d. to 1s. per lb., duty paid.

BELLADONNA.—Yugoslav root is quoted at from 4s. 6d. to 4s. 9d. per lb., duty paid, as to test; English leaves are offering at from 5s. 6d. to 7s. 6d. per lb., as to test.

BENZOIN.—Sumatra block on the spot is from £14 to £16 per cwt., as to quality; Sumatra almonds, £55 per cwt. Siam free almonds, now available on the spot at £120 per cwt.

BISMUTH.—Metal is unchanged on quotation at 11s. per lb. for 5-cwt. lots.

BUCHU.—Steady. Short rounds are rather short on spot and are quoted at from 3s. 10½d. to 3s. 11d. per lb.; shipment, 3s. 8d. to 3s. 9d., c.i.f. Ovals, 3s. 6d., spot.

CALABAR BEANS.—Steady. Spot quotations are from 10½d. to 11½d. per lb.

CAMPHOR.—Chinese tablets are offered at from 9s. to 9s. 6d.; refined powder (B.P.), 8s.; B.B. grade, 7s. 6d.; slabs (2½-lb.) from 7s. 3d.; crude powder, 6s. 6d. per lb., all spot London, duty paid.

CANTHARIDES.—Spot quotations are at about 8s. 3d. per lb.; shipment, 5s., c.i.f.

CARDAMOMS.—In good demand for export. Mangalore half-bleached A's, 9s., nominal, spot; B's, 8s., nominal; seeds, 8s. Aleppy seeds, 9s., spot; 8s. 9d. to 9s., c.i.f., per lb. Aleppy greens, 7s., spot; 6s. 9d., c.i.f. Ceylon seeds, 7s. 9d. per lb.

CASCARA SAGRADA.—A dull market. Quotations for 1947 peel are around 210s. per cwt., duty paid; 1946 is offered at 240s.

CASCARILLA.—Quills are quoted at 1s. 5d. to 1s. 7d. per lb., spot; siftings, 1s. 4d. to 1s. 5d.

CASSIA PODS (*C. fistula*).—Prices of East Indian are around 65s. per cwt., ex wharf.

CHAULMOOGRA.—*Hydnocarpus* on spot is quoted at 1s. 9d. per lb.

CHILLIES.—Mombasa, 110s. per cwt. spot; shipment, 95s., c.i.f.; Sierra Leone 115s., nominal; Nigerian, 85s. to 90s., spot.

CLOVES.—Zanzibar, spot, quoted at 10d. per lb.; shipment, 11d., c.i.f. Madagascar spot, 8½d. to 9d., duty paid; shipment, 7d. c.i.f. Penang, on spot, 2s. 9d. to 3s. per lb.

COCHINEAL.—Quiet. Silver greys, steady at 4s. 3d. per lb., spot, blacks, 4s. 6d.

COLCHICUM.—Corms on the spot, offered at prices from 6s. 6d. to 7s. 6d. per lb. New-crop seeds are in good demand at 13s. per lb., ex wharf.

COLOCYNTH.—Pulp on the spot is offered at prices from 1s. 7½d. to 2s. per lb.

DRAGONS BLOOD. — Steady. Singapore reboiled No. 1, £65 per cwt., spot; No. 2 £35.

ELEMI.—Manila No. 1 on the spot is quoted 2s. 3d. per lb.

EPHEDRA.—Herb is offered at around 62s. 6d. to 67s. 6d. per cwt., ex wharf.

ERGOT.—Portuguese new-crop on spot is reported to be offering at prices from 4s. 6d. to 4s. 9d. per lb., as to holder.

GALLS.—Steady. Persian blues quoted on spot at 260s. per cwt.

GAMBOGE.—Siam pipe on the spot is offered at £50 per cwt., duty paid.

GENTIAN.—French natural root is offered at from 60s. to 62s. 6d. per cwt., spot; sliced root is available at 75s.

GINGER.—African on spot is quoted at 80s. per cwt.; new-crop, September-October, 76s., c.i.f. Jamaica No. 1 quoted at 125s.; No. 2, 117s. 6d.; No. 3, 115s. per cwt., spot.

GUAIACUM RESIN.—Steady. Prices are from 2s. 4½d. to 2s. 6d. per lb., spot.

GUM ACACIA.—A steady market. Kordofan cleaned sorts, 65s. per cwt., ex store, London; shipment, September-October, 60s., c.i.f. Bleached No. 1, 125s., ex store; to arrive, 115s., c.i.f. Talha, 45s., ex warehouse; 42s., c.i.f.

HENNA.—Parcels of Sudanese leaves on the spot are offered at prices from 115s. to 140s. per cwt. Indian is available at 85s. per cwt.; powdered leaf, 1s. 9d. per lb.

HYDRASTIS.—Spot quotation is at 49s. per lb., duty paid.

IPECACUANHA.—Nicaraguan on spot is quoted at from 23s. to 23s. 6d. per lb.; for shipment, 17s. 6d. to 18s., c.i.f.

JALAP.—Vera Cruz, spot, 2s. 6d. to 3s. 6d. per lb. as to test (10 to 16 per cent. resin). Brazilian (13 per cent.), 1s. 6d.

LIQUORICE.—Anatolian natural, spot, from 47s. to 50s. per cwt., as to holder; Syrian, 40s.; Russian, 45s. to 46s. Italian block, 375s. per cwt., spot; Italian stick, from £385 to £525 per ton, as to quantity and grade. Turkish block, from 240s. per cwt.; Syrian block, to come forward, 405s., duty paid; American block, £172 per ton.

MENTHOL.—Steady. Spot quotations are from 44s. to 45s. per lb., duty paid, for Brazil; in bond, 42s.

MYRRH.—Aden sorts, £12 to £14 per cwt.; siftings, £6 10s. to £7 per cwt., spot.

NUTMEG. — West Indian 80's, spot, 3s. 4d.; sound unassorted, 2s. 11d.; wormy and broken, 1s. 8d. per lb.

PAPAIN.—Easier. East African No. 1 is quoted at 22s. per lb., spot; Ceylon, 17s.

RHUBARB.—Spot. Chinese rough-round, good pinky fracture, 4s. to 4s. 9d. per lb. and upwards, according to seller; wormy, 2s. 6d. to 3s. Rhapontic is offered at 1s. per lb.

SANDARAC.—New-crop, spot, 5s. 6d. per lb.; shipment, 5s., c.i.f.

SCAMMONY.—A parcel of root (15.8 per cent. resin) is offering at 65s. per cwt., spot.

SEEDS. — Both Cyprus and Turkish ANISE are quiet and unchanged from last week, with 1s. 5½d. per lb. asked for the former, and 1s. 5d. per lb., duty paid, for the latter, ex wharf London. CARAWAY.—Dutch is now quoted at 107s. 6d. per cwt., duty paid, spot London. CELERY.—Indian remains quiet at 1s. 2d. per lb., spot London or Liverpool. CORIANDER.—Argentine is in poor demand at 41s. per cwt., duty paid; Morocco is quoted at 42s. 6d. per cwt., duty paid, landed London. CUMIN.—Indian is now offered at 190s. per cwt., spot Liverpool; Cyprus is unchanged at 200s. per cwt., spot London; Polish is still offering at 165s. per cwt., duty paid in London. DILL.—Indian is now quoted at 46s. per cwt., spot London. FENNEL.—Indian offered at 72s. 6d. per cwt., spot London, and 70s. per cwt. in Liverpool. FENUGREEK.—Indian is still offering at 55s. per cwt., spot London or Liverpool; Morocco is quoted at 56s. per cwt., duty paid, spot London, and 55s. per cwt., duty paid, in Liverpool.

SENEGA.—Steady. Spot quotations are from 9s. 6d. to 10s. per lb., as to holder.

SENNA.—Tinnevelly leaves, spot, No. 1, 9d. to 1s. per lb.; No. 2, 7½d. to 8d.; No. 3, 5d. to 5½d. Tinnevelly pods, hand-picked, 9d to 1s. 4d.; manufacturing, 5d. to 5½d. Alexandrian pods, hand-picked, spot, from 4s. 9d. to 5s. 9d., according to quality; medium, 2s. 9d.; manufacturing from 1s. to 1s. 9d. per lb.; Alexandrian leaves, f.a.q., 1s. 2d. per lb.

Essential and Expressed Oils

ALMOND.—Spot quotations for sweet oil, B.P., are from 5s. to 6s. per lb. Bitter essential oil is quoted at from 27s. 6d. to 40s. per lb., as to quality.

ANISE.—Steady. Chinese star, in drums, is quoted at 5s. per lb., with up to 5s. 6d. for smalls; October-November, shipment, 4s. 9d., c.i.f.

BAY.—West Indian is offered on the spot at from 6s. to 7s. 6d. per lb.

CAMPHOR.—White oil on spot is quoted at from 2s. 5d. to 2s. 8d. per lb., duty paid.

CARAWAY.—English-distilled is offering at 37s. to 40s.; imported, 28s. to 30s. per lb.

CASSIA. — Spot quotations are from 13s. 3d. per lb. for B.P. oil; forward, 9d. 3d., c.i.f.

CITRONELLA.—Ceylon is quoted at 3s. 7d. per lb., spot, and 3s. 3d., c.i.f. Java on spot, 8s. per lb.; 5s. 8d., c.i.f.

CLOVE.—Quotations for English-distilled bud oil are at from 10s. 6d. to 12s. per lb. according to quantity.

CORIANDER.—English-distilled is quoted at about 275s. per lb.

CUBEBS.—English-distilled is offered at 55s. per lb.

CUMIN.—English-distilled oil is quoted at 72s. 6d. per lb.

DILL.—Prices of English-distilled oil are around 70s. per lb.

EUCALYPTUS.—70-75 per cent. (B.P.), 3s. 6d. per lb. for drums, and up to 5s. for smaller quantities; 3s. 8d., c.i.f.

GERANIUM.—Bourbon is easier on spot at prices from 45s. to 55s. per lb., as to grade; the forward position is difficult.

GINGER.—Prices are from 85s. to 100s. per lb., according to grade.

LAVENDER. — French, 38-40 per cent., 18s. to 20s., spot; 40-42 per cent., 21s. to 23s. Spanish (spike), 8s. 6d. to 10s., spot.

LIME.—Supplies on the spot are offered at from 26s. 6d. to 30s. per lb., as to quantity.

World Mineral Industries

No. 17—Talc

THE following table gives principal producers of talc and their output in long tons.

PRODUCING COUNTRY	1938	1941	1944
Canada	9,690	16,224	12,129
India	18,590	26,151	21,392
France	57,625	(a)	26,300
Italy	52,662	72,315	(a)
Sweden	6,690	5,150	5,425
Spain	8,305	28,688	10,305
United States ...	189,978	370,129	373,418
Korea	41,511	(a)	40,500
Manchuria	79,932	(a)	(a)

(a) Information not available.

(By courtesy of the Imperial Institute.)

CORRESPONDENCE

Delayed Payment

SIR,—It is time attention was drawn to the lag in paying chemist contractors. May and June accounts under National Health Insurance are still awaiting settlement in this area. There has been a token payment for July 5-30, but not even a token payment for August. And then to have all this talk about paying an average!

Yours faithfully,

Esher. WALLIS JONES.

Tribute to Dr. Tait

SIR,—Although you do not ordinarily publish verse, I hope you will make an exception for the enclosed tribute to that blithe spirit, Dr. Joseph Tait, to whom a presentation is being made in Edinburgh on October 20.

What time a callow youth I thought,
In pharmacy to find,
My bread and butter and withal,
The nurture for my mind,
One evening I with diffidence,
Betook me to York Place,
And ventured in its spacious halls,
To introduce my face.
The fathers in solemnity,
Were all foregathered there,
Pontifical and ponderous,
With such a sombre air,
When lo! the joyful countenance
of Dr. Joseph Tait
Appeared, and my depression went,
And I resolved to wait.
I'm now a chemist, and, as such,
It's poisonous to me,
That others on our sterling worth,
Should dare to disagree.
But this I know (for Dr. Tait
Himself has proved the case),
A chemist can be priceless if
He owns a smiling face.

Yours faithfully,

M.

Good Wine Needs No Bush

SIR,—It has been my privilege to work in many first-class pharmacies. It is still my good fortune to work with an old-time pharmacist, who takes a pride in doing all things well. In this pharmacy red sealing wax, red twine, white demy have remained the order of the day, even during the difficult war years. The proprietor needs no handbills, posters or special window displays of elaborate apparatus to impress people that he is a pharmacist. How ridiculous it must appear, even to the layman, that chemists should have to advertise that they actually do dispense prescriptions.

Yours faithfully,

Chilwell. R. G. DAVIES-JONES.

TRADE MARKS

(From the "Trade Marks Journal," September 15

"SEMONIA"; by O. M. Seman, Ltd., London S.W.7; B661,084. For soaps (3).

"AEROGRAPHIC"; by Kodak, Ltd., London W.C.2; 654,519. For photographic sensitised film for use in aerial photography (1).

"DISTEC"; by Hess Products, Ltd., Leeds 660,564. For fatty acids and glycerides, all being industrial chemicals (1).

"DAMASKIN"; by Colloidal Chemists, Ltd., London, S.W.1. B648,266. For non-medicated toilet preparations for the skin (3).

"BLACK DOMINO"; by Palmyra Laboratories (Liverpool), Ltd., Liverpool; 657,537. For perfumes, nail varnish, lipstick, toilet rouge, depilatory wax, eyebrow pencils and mascara (3).

"VYTABATH"; by Kem Laboratories, Ltd., Bradford; 660,109. For non-medicated toilet preparations for the bath (3).

"BANTAM" and device of bantam (word "Bantam" disclaimed); by Ernest Herbert Blyth, London, N.W.8; 660,592. For toothpaste (3).

"SEMOZONE"; by O. M. Seman, Ltd., London S.W.7; 661,083. For preparations for cleaning lavatory pans (3).

"DEWGLOSS"; by Lewis (Import & Export), Ltd., London, W.1; B661,284. For shampoos (3).

"SUPRILLO"; by Brillo Manufacturing Co., of Great Britain, Ltd., London, N.W.10; 662,189. For detergents and soaps (3).

"VOLTASYN"; by Voltas, Ltd., Southall; 663,196. "PADRONE"; by Owens (Sheffield), Ltd., Sheffield; 663,374. For all goods (3).

"VITREX"; by George King & Co., Ltd., London, N.W.9; 650,412. For infants', invalids', and pharmaceutical foods (5).

"COBROMEL"; by British Continental Drugs, Ltd., London, S.E.11; 653,240. Device of man and woman; by George Edgar Neville Stephenson, Sydney, Australia; 658,938. "OSBENE"; by Bayer Products, Ltd., London, W.C.2; 663,973. For pharmaceutical preparations and substances (5).

"MARTUNIQUE"; by Highgate Optical Manufacturing Co., Ltd., London, E.C.1; 663,177. For spectacles, spectacle frames and lenses. (9).

"ORTHO-CREME"; by Ortho Pharmaceutical, Ltd., High Wycombe; B660,250. For medicated creams for vaginal use (5).

"PREEN"; by Bob Martin, Ltd., Southport; B662,308. For veterinary medicines (5).

"PHYSEPTONE"; by the Wellcome Foundation, Ltd., London, N.W.1; 662,616. "TERPROL"; by May & Baker, Ltd., Dagenham; 663,563. "PERABETA"; by Sharp & Dohme, Ltd., Hoddesdon; 663,637. "NOVARPHEN" and "DYSTRON"; by Bayer Products, Ltd., London, W.C.2; 671,050-51. For all goods (5).

"SIVAM"; by M. & W. Richmond, Halifax; 662,744. For veterinary and sanitary substances (5).

"PERCHALENE"; by Wilsons Chemical Products, Ltd., London, S.W.4; 663,094. For bandages made principally of rubber (5).

"TRIMON"; by Bayer Products, Ltd., London, W.C.2; 663,689. For veterinary preparations and substances (5).

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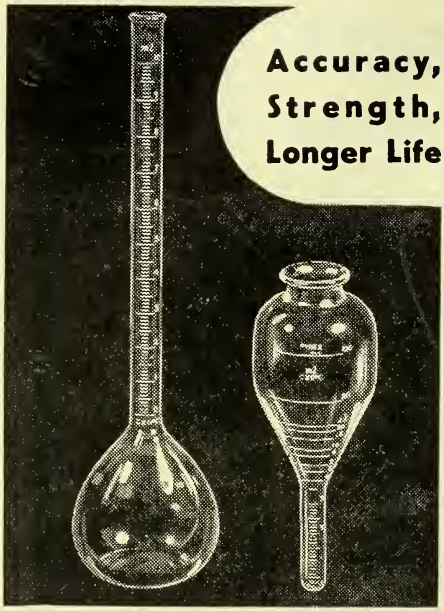

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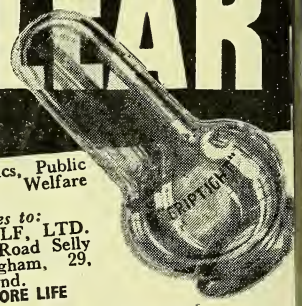

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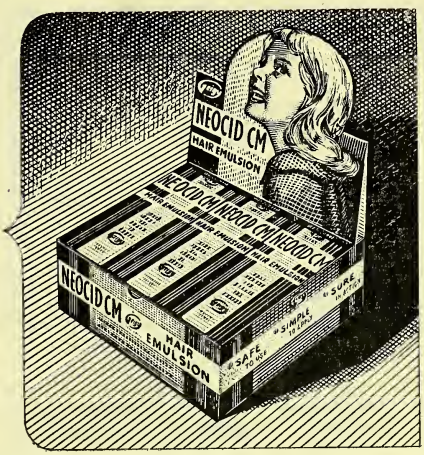

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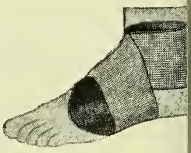

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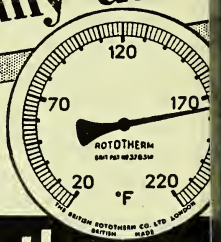

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SANITARY TOWELS
PURE COTTONWOOL THROUGHOUT
EDOSAN LTD. 189, CARLTON VALE, LONDON N

RIBEX

(DUNCAN)

A pleasantly flavoured sedative and expectorant elixir for relief of coughs and colds.

Suitable for both adults and children, RIBEX contains black currant syrup effectively combined with menthol, ipecacuanha, euphorbia and tolu.

4-oz. Bottles 2/9 Purchase Tax Included

Another of the profitable Duncan Counter Lines

DUNCAN, FLOCKHART & CO. LTD. EDINBURGH LONDON

'NORVEX'

THE SANITARY TOWEL WITH AN EVER INCREASING DEMAND

KNOWN TO ALL DISCRIMINATING WOMEN.

ALL WOOL WITH LOOPS.

MANUFACTURED BY — — — **CROSSKILLS'** OF NORWICH

'NORWICH' *CREPE BANDAGES*

'ANGLIAN' *SURGICAL DRESSINGS*

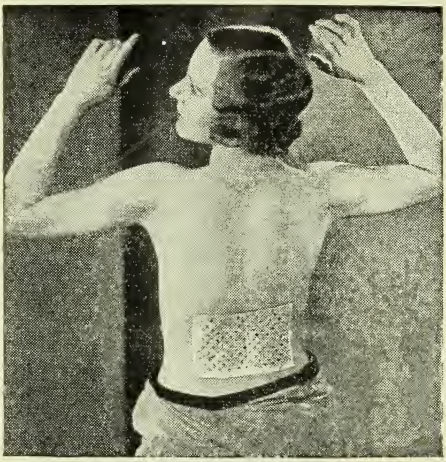
METHYL ACETANILID

MANUFACTURED BY

H. H. HUFFER & B. A. SMITH LTD.

LONDON ROAD - THORNTON HEATH - SURREY - ENGLAND

THORNTON HEATH 4266/7



A famous line
with a steady demand

WILMATH

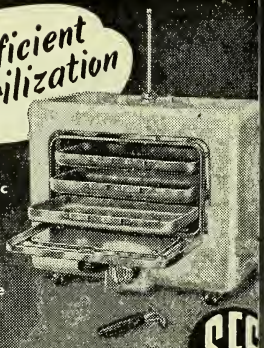
POROUS PLAISTERS

WM. MATHER LTD., Manchester 15.

SURQUAL REGD.

HOT AIR STERILIZE

For efficient Sterilization



- With Thermostatic Control and Pilot Light.
- Finished in High Grade Cream Stove Enamel and Chromium.

Name of Local Dealers on reque

SES

SURGICAL EQUIPMENT SUPPLIES

WESTFIELDS ROAD . LONDON . W. 3

Manufacturers of Sterilizers, Hypodermic Syring Plastic Cases, etc.

display

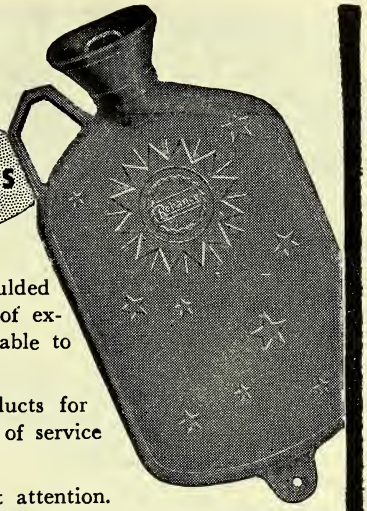
When Tampax is displayed, women have no need to ask if y stock it. That saves embarrassment. And results prove that steps up sales, too. There's a wide range of Tampax display ur for every purpose. Send details of your requirements to: Sa Office, 110 Jermyn Street, London, S.W.1.

SANITARY PROTECTION WORN INTERNALLY TAMPA

Reliance

MOULDED SEAMLESS HOT WATER BOTTLES

THE ORIGINAL BRITISH



As the originators and largest Manufacturers of Moulded Seamless Hot Water Bottles—and with 55 years of experience in Rubber Moulding behind us, we are able to offer you the finest quality and service.

We are now producing new and beautiful products for the coming Season and we look forward to being of service to you.

Enquiries are welcome and will have our prompt attention.

RELIANCE RUBBER CO. LTD - LOTS ROAD - LONDON - S.W.10

Telephone: Flaxman 6200 and 0985/6 *ESTABLISHED 1889* *Telegrams: 'Doorstop' Fulroad, London.*

THE **"MATER"** CLINICAL REGD.

The position of the Mercury column is at once perfectly plain. Red markings above 99.4

ALL TYPES OF CLINICAL AND OTHER THERMOMETERS

PERKEN, SON & CO. LTD.
(ESTABLISHED 1852)
8 HATTON GARDEN
LONDON, E.C.1
Telephone: 0724 Holborn
Telegrams:
"Optimus, Smith, London"

Wholesale Agents for Clinical Thermometers:
FASSETT & JOHNSON, LTD.
86 Clerkenwell Rd. London, E.C.1

GARDINER'S *FOR*

COATS

JACKETS

FINE WHITE DRILL, 2 coupons
Button 3, 3 Outside Pockets.
Chest—32" to 46" - 13/4
Post and packing 1 or 2—9d.

LONG COATS

WHITE DRILL, 3 coupons
3 Outside Pockets.
Chest—34" to 46" - - 18/3
" 48" " 50" - - 21/6
" 52" " 54" - - 22/6
Post and packing 1—9d., 2—1/-
ALL SHRUNK

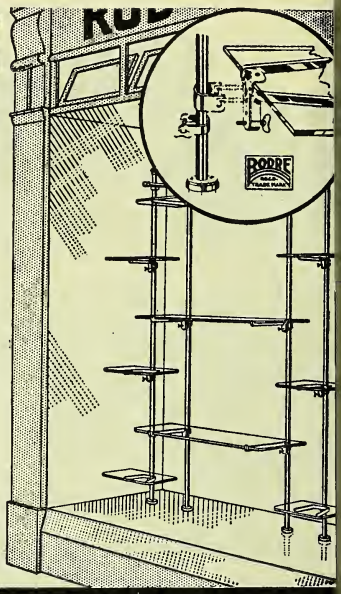
State Chest Measurement. Send Cash and Coupons with Order, over £2 Carriage Paid.

GARDINER & CO. (The Scotch House) Ltd.
1, 3 & 5 COMMERCIAL ROAD, LONDON, E.1
Opposite Aldgate East Station 'Phone: BIS 6751 (3 lines)
Branches: DEPTFORD, S.E.8; WOOLWICH, S.E.18
CLAPHAM, S.W.11

DISPLAY THE RODRE WAY

"Your Finest Sales Medium"

- RODRE fitments—solid steel rods and patented clips and brackets—combine stylish designing and supreme efficiency with the solid strength and dependability that guarantee life-long service.
- RODRE fitted shelves can be tilted at an angle, or adjusted, raised or lowered, turned to any position to suit varying display requirements. Shelves can be removed without disturbing the rest of the display. Absolute rigidity is assured always.
- RODRE fitments are beautifully made and ingeniously designed to save time and trouble while adding distinction to displays that compel attention.



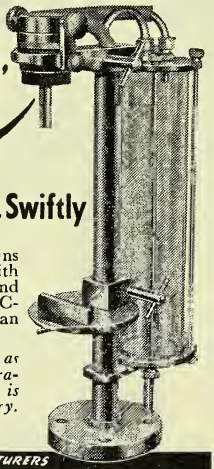
FREE Let us submit, without cost or obligation to you, a made-to-measure plan for your individual window requirements. Simply state length, breadth and height of windows.

PENN'S (SHOPFITTINGS) DISPLAY CO.

2, NORTHUMBERLAND PARK, LONDON, N.17 *Tel:* TOTtenham 2548

VACFILL TRADE MARK

Fill it by 'Vacfill'



Simply...Cleanly...Swiftly

Correct filling of bottles, tins and other containers, with lotions, emulsions, oils and other liquids—the "VACFILL" Filling Machine can do the job.

The Single Head Model as illustrated is efficiently operated by the unskilled and is available for early delivery. Full details upon request.

MANUFACTURERS

BUSBY, WINTER & Co. LTD.

VACFILL WORKS, 9-11 ANDOVER PLACE, LONDON, NW6.

TEL: MAIDA VALE 2867 & 5901. CABLES: VACFILL LONDON.

There's good business in

Xmas cards illustrated with Enlargements from your customer's own negatives

Own—Snaps—Own Christmas Cards are more personal, more original and more treasured than any Christmas Card one can buy. And the idea only needs to be put to your customers for good business to be done. Holiday Snaps, Wedding and Family Groups, Child Studies etc. are excellent subjects, and Northern Centre experts in this work offer you speedy service. Cards (complete with appropriate message, tasteful ribbon and first class prints beautifully mounted) cost:—

13/6 per doz less 33⅓% trade

Send your D and P and all finishing work to Northern Centre

First class work assured. Processing of all types including **MINIATURE, COPYING** and **COLOUR WORK.** Large experienced staff using modern apparatus and materials. Usual Discounts.

NORTHERN CENTRE

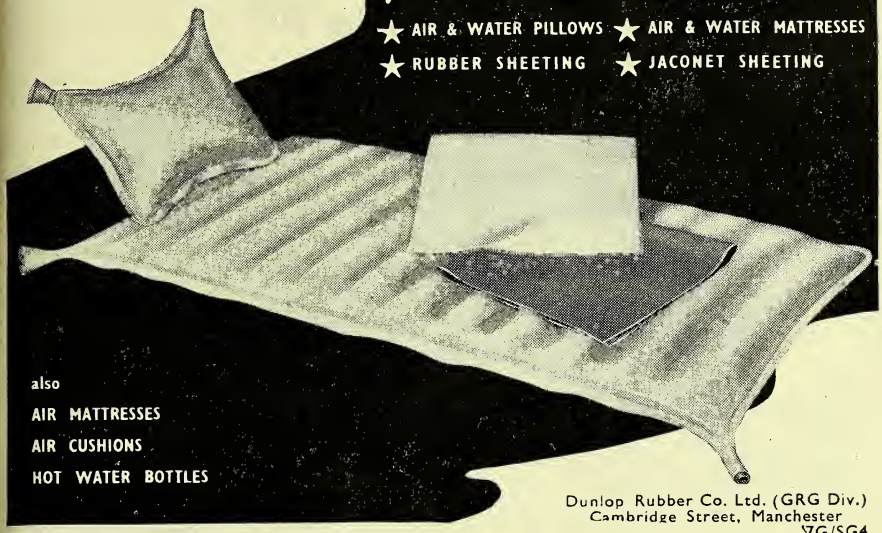
ARGUS CHAMBERS · BRADFORD

THE FINISHING FIRM OF THE NORTH

WHEN ORDERING FROM YOUR WHOLESALER . . .

specify DUNLOP

★ AIR & WATER PILLOWS ★ AIR & WATER MATTRESSES
★ RUBBER SHEETING ★ JACONET SHEETING



also
AIR MATTRESSES
AIR CUSHIONS
HOT WATER BOTTLES

Dunlop Rubber Co. Ltd. (GRG Div.)
Cambridge Street, Manchester
7G/SG4

WYLIE'S
Abrasive
HAND SOAP

It's QUICK—
It's GOOD!

INVALUABLE IN THESE DAYS OF SOAP SHORTAGE

This is the scarlet and pink tin that catches the customer's eye — outstanding on your shelf, compelling in its attractiveness; WYLIE'S Abrasive HAND SOAP is kind to sensitive skins, it cleans and protects hands, making them soft and supple while gently removing grime. No grit, acid or caustic. A quality line worthy of warm recommendation. Write us now for full details

NO COUPONS
1/3
IN THE PINK AND RED TIN

WYLIE'S CLEANSERS LTD., 12 DARTMOUTH STREET, LONDON S.W.1

REGISTERED
SUBA-SEAL
TRADE MARK

NEW HYPODERMIC UNITS

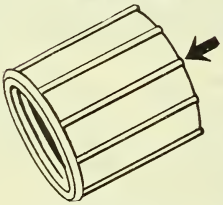
...are a notable advance i bulk solution containers for Hypodermic injections...

6 SIZES FROM 5 c.c. TO 200 c.c.

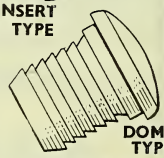
Bottles in alkali free glass either plain or amber tinted.

The neck of the bottle is threaded to accept a screw-on plastic cap. The cap is longitudinally ribbed to provide a secure grip. The inside of the cap has incorporated in the design a ★patented rib, which bears against the periphery of the rubber closure, thus forming an effective seal and at the same time leaving a free space, thus avoiding the possibility of foreign matter being forced into the soft rubber by the plastic cap.

PLASTIC CAP

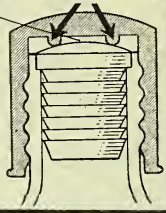


INSERT TYPE



DOME TYPE

★ PATENTED RIB



Two types of rubber closures are available, made from pure rubber stock and will withstand sterilisation and many needle insertions. The **insert type** closure has an upper lip which fits into a recess in the bottle neck—preventing the closure being inserted too far into the bottle neck. The **dome type** has an upper dome which projects over the neck of the bottle.

Ask us for full details

WILLIAM FREEMAN & COMPANY LIMITED

SUBASEAL WORKS, PEEL STREET, BARNSLEY

Telephone BARNSLEY 4081 | Telegrams 'SUBASEAL BARNSLEY' | Cables 'SUBASEAL BARNSLEY'

SALES INCREASING RAPIDLY
ADVERTISING PULLING A QUOTA
THANKS FOR WONDERFUL
DEMAND FOR MORE
SALES TERRIFIC
DEMAND INCREASING
RECEIVED EXTRA O·K MARK

BOOM

The popularity of Gordon Moore's Crimson Dentifrice Cosmetique increases every day, and with it a demand that is only met by constant revision of the production programmes. There are two reasons for this extraordinary trading success. The first is found in the attraction of the dual-purpose product — an exceptionally good dentifrice incorporating a new cosmetic technique. The second is the new and expanding programme of national advertising which backs up its distribution.

Consult your wholesaler at once to ensure a fair quota.

If in any difficulty please write direct to :—

Gordon Moore

AND COMPANY
(LONDON & HOLLYWOOD) C.D.,
31 SINCLAIR ROAD · LONDON · W.14

"ZEMS"

HERBAL LICORICE TABLETS

THE BEST MEDICATED TABLETS FOR COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

Supplies may be obtained from C.F. Wholesale Houses.

ZEMS LTD.

718-724 Seven Sisters Road, London, N.15

MORE RESILIENT

MORE ECONOMICAL

LASTS LONGER

RESISTS STERILISING FLUIDS

The Best Comb

for all purposes

VULCANITE

Order through your wholesaler. Popular lines available today include Dressing Comb 1553 7½" (illustrated), Dressing Comb 1515 7½". Gentlemen's Comb 1131 7", Handled Comb 290 7" and 3" Tooth Comb 611.

NORTH BRITISH

VULCANITE COMBS — *BETTER FOR THE HAIR*

THE NORTH BRITISH RUBBER COMPANY LTD. · EDINBURGH · LONDON & BRANCHES

VCIA

IN MATTERS CONCERNING FEMININE HYGIENE...

SHE LOOKS TO *you* FOR PROFESSIONAL ADVICE

The responsibility to give professional advice when called upon has placed pharmacy in a position of high honour and esteem. It is a service especially valued by women particularly in matters exclusively feminine. When it is a question of family limitation it is always wise to suggest Rendells. Three generations in all parts of the world have proved the original full strength formula completely dependable and recent clinical tests confirm there is no safer or better contraceptive.

Rendells

PRODUCTS FOR FEMININE HYGIENE

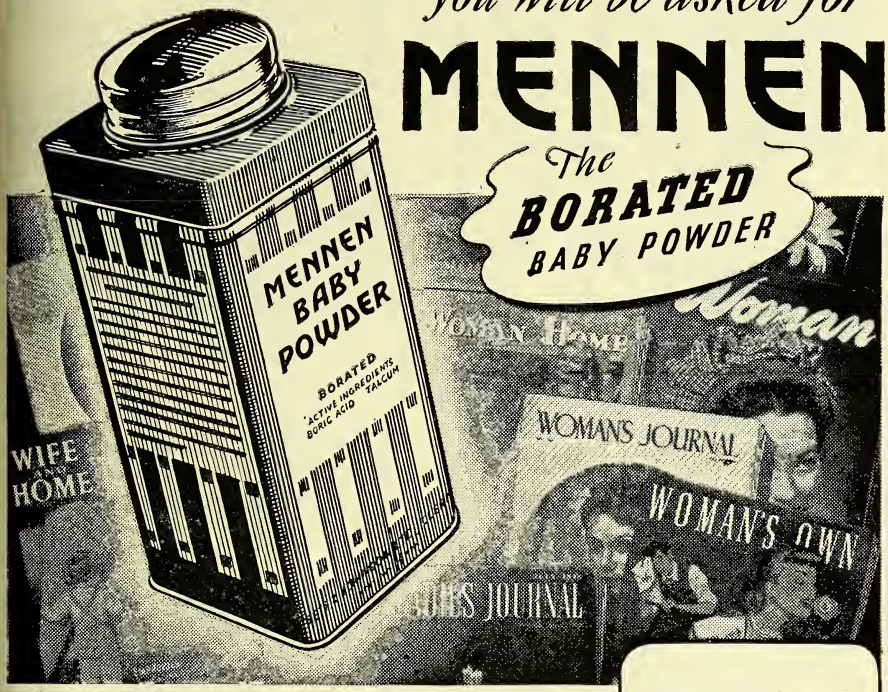
W. J. RENDELL LTD. HARDWICK HOUSE · 161-5 ROSEBERY AVENUE · LONDON E.C.1

From now on—

you will be asked for

MENNEN

The **BORATED** BABY POWDER



The famous 'Mennen' Baby Powder is back. Made to the 'borated' American formula by Fassett & Johnson, Ltd. 'Cloud spun,' and containing Boracic Acid and Ultra-fine talcum, 'Mennen' is "Baby-Powder with a REASON."

From now on 'Mennen' advertising will appear in the principal Women's Magazines with Nursery interest.

TRADE TERMS & DISCOUNTS:—

Price to Public - - -	1/5 each inc. of Purchase Tax
Price to Trade - - -	9/6 per dozen
Purchase Tax	3/2 per dozen

5% quantity discount on 3 dozen. Carriage Paid.

Made in England for the MENNEN COMPANY *by*

FASSETT & JOHNSON LTD

CLERKENWELL ROAD, LONDON, E.C.1

NATIONALLY ADVERTISED TO MILLIONS OF MOTHERS IN:—

HOUSEWIFE

MOTHER

WOMAN'S JOURNAL

WELDONS LADIES' JOURNAL

NURSERY WORLD

MOTHER & HOME

WOMAN & HOME

WIFE & HOME

WOMAN'S OWN

WOMAN

HEAD PESTS

a NEW approach

A JEYES PRODUCT

SULEO Eradicates and Prevents Head Pest Infestation *(Pediculosis capitis)*. One application will clear the most heavily infested head or will keep a clean head free from head pests for 14 days, even if contacts are made with infected persons.

3oz SPRINKLER BOTTLE
(Six treatments)

CHEMISTS FORMULA

INC **2/2** TAX

PHARMACISTS' DISCOUNT 33⅓%

SULEO

DDT HAIR EMULSION

"Every case so far treated with D.D.T. emulsion has been cured by one application. This result is to be expected, as the duration of protection with D.D.T. exceeds the incubation period of the nits." (B.M.J., 24th March, 1945.)

Manufactured for
JEYES' LABORATORIES LTD., LONDON, E.13
By the proprietors
JEYES' SANITARY COMPOUNDS CO. LTD., LONDON, E.13

LET A **GOSHERON** MAN HELP YOU WITH YOUR SEALING PROBLEM

TRANSOTAPE cold-sealing cellulose strip
TRANSOTAPE sticks itself—stays stuck
AQUA-NIL 100% waterproof & dielectric

Gosheron tapes serve all uses, including the paper, clothing, leather, hat and toy industries

Your enquiry welcomed

JOHN GOSHERON & CO LTD

GAYFORD ROAD LONDON W12 SHE 3326 (five lines)

PW 8 /48

'Pharmitex' PURE TOILET TISSUE is post war quality and for *Chemists only.*

HAROLD WESLEY LTD.
HARLEY MILLS, LONDON, N.W.10

All Cannon Rubber products are of the highest quality available today. Both at home and overseas these products have become popular because they are manufactured to most exacting standards. Wherever the CANNON trade mark appears, there you will find the best that is to be had. (From your regular Wholesaler only.)

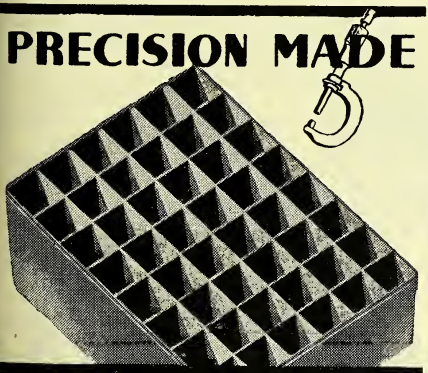
Quality Goods by

Makers of 'Modern' and 'Wellborn' Teats, The 'Dolphin' and 'Ripple' Hot Water Bottles, 'Diver' and 'Rosette' Bathing Caps.

CANNON RUBBER

THE CANNON RUBBER MANUFACTURERS LIMITED · LONDON · N.17

PRECISION MADE



PARTITIONS

AND CARTONS FOR ALL PURPOSES

J. DRING LTD

Sales Office: The Airport, PORTSMOUTH

Always supply

MENEX

FOR WOMEN WHO PREFER

Soluble

TOWELS

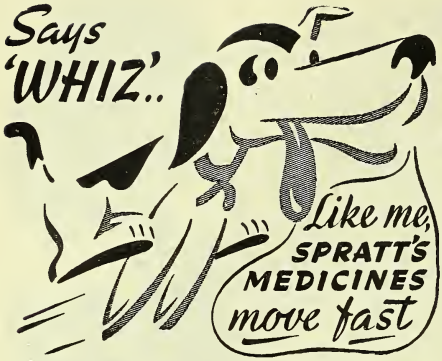
Pre-stretched, detachable loops, waterproof backs

ROBINSON & SONS LTD. CHESTERFIELD & LONDON

also makers of the famous

MENE

— popular for over 50 years



In the newly designed Red topped packets **Spratt's Dog Medicines and Cat Medicines** make an attractive appeal. Famous for over 80 years, these now represent today's quickest moving line of speciality sundries.

SPRATT'S DOG MEDICINES

the formula is on the packet!

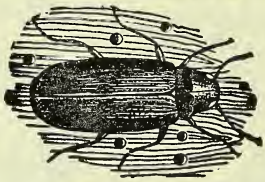
SPRATT'S PATENT LTD., 41-47 BOW RD., E.3.

SLIPcoFOAM

Not a 9-day w
der, but a 365-
certainty. Nation
advertised on p
ters, in buses,
in the daily
weekly Press.
Slipcofoam is
real soap substit
that you can saf
recommend for
washing jobs—fr
softest woollies
hardest water.

SLIP PRODUCT CO., LTD. LONDON, S.W.20

(D/72/10



MORE AND MORE PEOPLE ARE ASKING FOR

RENTOKIL TIMBER FLUID

Rentokil Timber Fluid is backed by extensive press advertising. The sales are rising rapidly—do you stock Rentokil Products—if not

Get your stocks now

Write to: **RENTOKIL LTD., Dept. C.D., School Lane, Fetcham, Surrey.** *Tel.* Leatherhead 4021/2

SHERLEY'S always make *Regular Customers!*

To be sure of a fair share of the big, regular demand for the Sherley's preparations please order well ahead—for empty shelves can only mean disappointment. There is no treasure like a regular customer. He is the mainstay of profitable trading; a source of valuable good will. Adequate stocks of Sherley's Dog and Cat Medicines will keep the "regulars" happy and turn many a "casual" into a good friend.

SHERLEY'S DOG MEDICINES

A. F. SHERLEY & CO. LTD., 16/18 MARSHALSEA ROAD, LONDON, S.E.1

Speaking of

NORTHERN IRELAND

WILL REMIND YOU OF

Belfast Telegraph

The Newspaper with the largest circulation in Northern Ireland. Read in the homes of the people throughout the whole of this important industrial and agricultural part of the UNITED KINGDOM

HEAD OFFICE: ROYAL AVENUE, BELFAST.

LONDON OFFICE: 112 FLEET STREET, LONDON, E.C.4

Applied before Work

ROZALEX

REG'D BRAND

Keeps Hands Clean & Healthy

Temporary Pack

For use in the home

Supplied in Tins

Retailing at 2/1 including Purchase Tax

Rozalex Limited, 10 Norfolk St., Manchester, 2

"SURCO"

RELIABLE

ELASTIC HOSIERY

SEAMED AND SEAMLESS

For special garments to measure we give the best possible service

SURGICAL BELTS
TRUSSES AND SUNDRIES

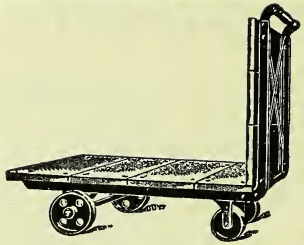
50 years' service of everything Surgical

SURGICAL HOSIERY CO. LTD.

Russell Street - NOTTINGHAM
Telephone No. 75903 Telegrams: Surgical Nottm.

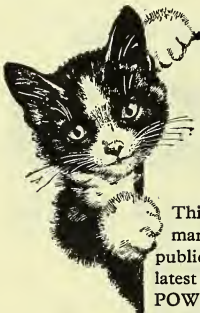
TYNE TRUCK & TROLLEY CO. LTD

66/68 NORTHUMBERLAND STREET NEWCASTLE UPON TYNE.1



Trucks and Barrows of every description.

Carboy-Tilters, Sackholders, Etc.



Very Important Pussy

This 'peeping pussy' is one of many, featured in the nation-wide publicity that heralds Karswood's latest product—KARSWOOD CAT POWDERS. More and more pet-lovers realise that cats need regular conditioning—the five million pussy population of Britain can *all* be Karswood customers—so stock up now and make sure of *your* share of them!

KARSWOOD cat POWDERS

A product of E. Griffiths Hughes Ltd. Manchester 3

JOHNS, SON & WATTS, LTD

J.S. & W.

THE PACKAGING SPECIALIS

Letterpress & Litho Cartons, Folding Rigid Boxes, Packings for Special Purpos

2-4 EPWORTH STREET, LONDON, E.C

'Phone: MONarch 7408 (3 lines)

PER CENTA THE CONTAINER PEOPLE

(PERCENTA LTD.)

Containers of Meta Glass, Aluminium and Plasti

Tel: Hop 0516 (6 lines

Percenta House, 130/2 Tooley Street, London, S.E.1

VIRDOX REGD

nutrition

Rewards Regular Users with Fre Energy. VIRDOX Powder in 3/6 tin VIRDOX Tablets in 2/3 tins.

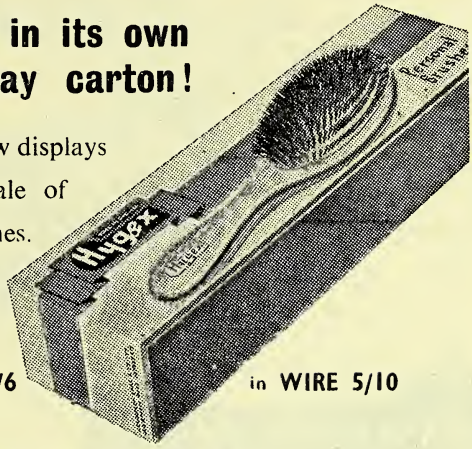
75 KINGSWAY, LONDON, W.C

Hygex

RUBBER-CUSHIONED BRUSHES

...each now packed in its own attractive display carton!

Effective counter and window displays will greatly develop the sale of these nationally advertised lines.



Retail prices unchanged as under:—

in NYLON 16/- in BRISTLE 11/6 in WIRE 5/10

Wholesale only

HENDERSON BROS. & CO. LTD. Burwell Road, London, E.10. Telephone: Leytonstone 5202/3

SIDNICK & CO. LTD.

11/12, FINSBURY SQUARE
LONDON, E.C.2

Telephones: MONARCH 5642/43

You can rely on us for courteous and efficient wholesale service

- **Proprietary Goods**
- **Pharmaceutical preparations**
- **Toilet Requisites**
- **Dressings and Cotton Wools**
- **Drugs and Sundries**

Regular deliveries in all areas

St. Martins

TRADE MARK

DOUBLE-WEAVE
SUPER RIGID
TRANSPARENT

DRINKING 'STRAWS'

NOW AVAILABLE IN
1/- HYGIENIC PACKETS
FROM ALL
CHEMISTS' WHOLESALERS

●

P. HARRIS & CO.
TALBOT HOUSE
ST. MARTIN'S LANE, LONDON, W.C.2

MELOCAMP LOZENGES

Have established themselves because they are what the Public expects of a lozenge. They relieve cough and bronchial congestion with demulcents, sedatives and the glowing warmth of penetrating oils.

In attractive 2 oz. size tins Retail 1/6d. inc. P. Tax

Supplied in Display Boxes holding 1 doz. tins, 9/- net per doz. with extra discounts on 3, 6 & 12 doz. lots in return for display

Telephone : BYRon 1440/1800
Telegrams : Damancy Harrow

DAMANCY & CO. LTD HARROW MIDDX.
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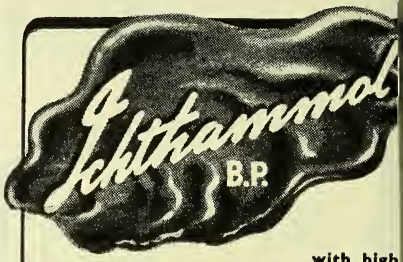

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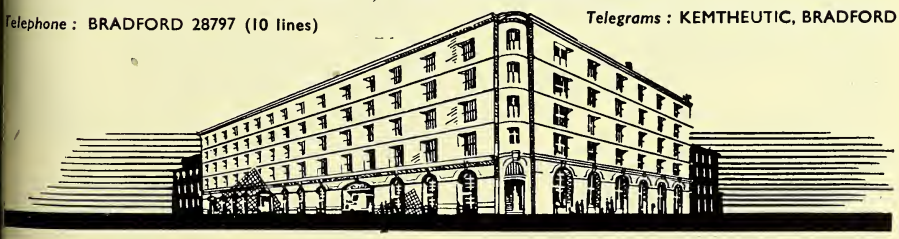

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The CHEMIST AND DRUGGIST SUPPLEMENT
28 ESSEX STREET, LONDON, W.C.2.
This Supplement is inserted in every copy of The Chemist & Druggist
OCTOBER 2 1948

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1. South Africa. We are now in receipt of instructions for the disposal of several substantial businesses in the Union of South Africa and particulars will be forwarded to applicants desirous of emigrating. The prices are between £4,500 and £9,000 approximately. Possibly part payment terms in some instances may be arranged to approved purchasers.

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6. Essex, Country Town. Turnover last year £13,000. Net profit after charging expenses over £2,500. New lease at £150 per annum. Price £6,500 plus stock, estimated at £2,000.

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AN OLD-ESTABLISHED London house require a young qualified assistant chemist, capable of conducting routine analysis of products, and supervision of poisons. Write, giving full particulars of age, experience, salary required. Box 4/723.

ANALYTICAL CHEMIST required by London manufacturing chemists. Practical works experience of general routine analysis and alkaloidal assays of drugs, including opium, essential. 5-day week. Reply, giving particulars of experience, salary, etc., to Box 4/173.

ASSISTANT with some pharmaceutical experience required for pill department of manufacturing chemists in London area. Apply with full particulars and salary required, to Box 4/725.

BRITISH CHEMICALS & BIOLOGICALS, LTD. (controlling Benger's, Ltd., Genatosan, Ltd., and Whiffen & Sons, Ltd.), require an assistant in their medical department, at Loughborough. Duties will include correspondence with the medical profession and the compilation of technical literature. A degree in pharmacy or science is desirable and an ability to write lucid English is essential. Previous experience of this work will be advantageous, but is not a necessity. Applications should be addressed to the Sales Director, British Chemicals & Biologicals, Ltd., Loughborough, Leics.

CHEMIST. Man wanted. Manufacturing. State age, wage and experience. Managing Director, Burdall's, Ltd., Hillsborough Works, Sheffield.

DEPARTMENTAL MANAGER for patents and sundries, wanted by well-known Manchester wholesale house. Position offers scope and prospects for right man with experience, initiative and energy. Write, stating full details and salary required, to Departmental Manager, Box 4/760.

GENERAL SALES MANAGER

An important company of manufacturing chemists operating a range of nationally advertised toilet and pharmaceutical preparations of international reputation requires a high-calibre General Sales Manager. The position is one requiring a high degree of knowledge of modern sales promotion, advertising and sales office organisation and the applicant must be well used to large turnover business. The salary will be in the region of £2,000 per annum, according to the capability of the successful candidate. Please give full details of past career in your first application, to Box 4/750.

EVANS MEDICAL SUPPLIES, LTD., require a young pharmacist as assistant to the head of the pill and tablet section. Experience in tablet making is not essential. Applications should be sent to The Manager, Evans Pharmaceutical Laboratories, 29 Fleet St., Liverpool, 1.

INVOICE CLERK (Male) experienced, required by firm of Pharmaceutical Manufacturers in Middlesex, to take charge of invoicing department. Pharmaceutical experience is not necessary, but an advantage. Apply in writing stating age, experience and salary required to Commercial Manager, Box 4/773.

IMPERIAL CHEMICAL INDUSTRIES, LIMITED, have vacancies for overseas representatives whose duties will involve tours of several months a year abroad to maintain contacts with agents, hospitals, public health authorities, doctors, etc. Applicants, who should have a pharmaceutical qualification or previous experience of the type of work, should write to Staff & Establishment Section, Imperial Chemical (Pharmaceuticals), Ltd., Fulshaw Hall, Wilmslow, Manchester.

LEADING COMPANY of distributors marketing nationally advertised pharmaceutical products, toilet preparations, etc., invite applications for the appointment of assistant sales manager. Experience in sales promotional work, possessing initiative with knowledge of wholesale and retail trade, is desirable. Apply in first instance, giving age and full details of past experience in strictest confidence, to Box 4/739.

LONDON Chemists' Wholesalers with unusual lines require two go-ahead representatives with connection chemists, etc., in London and the Home Counties, north of the Thames. Live-wire salesmen will be given salary, comms., bonuses, exps. Cars provided. Apply Box 4/746.

MANUFACTURERS of pharmaceutical specialities with progressive policy require top-grade representatives in (1) London, North of Thames and Middlesex; (2) London, South of Thames and Surrey; (3) Kent, Sussex, Hants, Dorset, to take over existing accounts and develop to maximum extent. The appointments will be found exceptionally attractive. Applicants should be car owners and must provide proof of outstanding selling ability and long, unbroken connections with all leading chemists and stores. M.P.S. qualifications preferred but not essential. Fullest particulars necessary in first letter. Box 4/754.

MANUFACTURING CHEMISTS of specialities and general lines in popular demand require salesmen for Yorkshire and the South of England. Applicants must be well-introduced with doctors, hospitals, chemists and wholesalers. Car owners preferred. Box 4/738.

MEDICAL REPRESENTATIVES and travellers, for all districts British Isles, required to carry high-class pharmaceutical preparations. Liberal commission. Box 4/612.

OLD-ESTABLISHED London drug house requires representative for Oxfordshire, Bedfordshire, Buckinghamshire and N.W. London suburbs. Must have good personal connection. Salary, expenses and commission. Box 4/602.

PART-TIME AGENTS required for most areas of British Isles to introduce proprietary lines, sanitary towels, surgical dressings, hot water bottles, etc. Part expenses and generous commissions. Please give full details in first letter. Lax-Vita, Ltd., 66 Victoria St., London, S.W.1.

PHARMACEUTICAL and surgical dressings manufacturers have a vacancy for a representative in Scotland. Applicants not over 35 years should give particulars of experience, including education, also salary required. Box 4/677.

PRODUCTION MANAGER for packaging pharmaceutical and cosmetic lines, Scotland. Good scope for capable energetic man. State age, full particulars of experience and salary expected. Box 4/737.

PROMINENT manufacturers of ethical pharmaceutical products require the services of a representative for the North London territory. Duties involve both medical and trade propaganda and sales. Applications are invited from registered pharmacists under 35 years of age, and preferably resident in this area. Previous representative experience is not essential. The position is progressive and pensionable. Particulars to Box 4/765.

REPRESENTATIVE required for sales of veterinary requirements to veterinary profession only in area Kent to Hampshire with adjoining counties. Knowledge of veterinary products essential. Apply Box 4/628.

REPRESENTATIVE required by old establ London Drug House for London area, mainly S Must have good personal connection. Salary, penses and Commission. Apply, stating experi qualifications and fullest details to Box 4/781.

REPRESENTATIVE required for sales of veter requirements to veterinary profession only in Devon, Cornwall and other West Counties. K ledge of veterinary products essential. Apply 4/629.

REPRESENTATIVE required by old-established don house for Midland territory. Applicants s have live connection with retail chemists and ferably some previous retail experience, not sarily qualified. Please state age, experience remuneration required. Box 4/722.

REPRESENTATIVES having a retail conn wanted, to carry clearance line in ladies' brushes manufactured by well-known house. commission basis. Reply in confidence, Box 4

REPRESENTATIVES required by well-known facturers of cotton wool sanitary towels, wool, surgical dressings, for the following dis London, West Coast, Wales, Lancs, Yorks, land. Must have sound connection with who and retail chemists, Co-ops., etc. Commission Write, Box 4/751.

REPRESENTATIVES with good connection ch required for the following areas (1) Sheffiel Birmingham, for nationally advertised propr medicine. Salary, expenses and commission. A.C. 33379, Samson Clark's, 57-61 Mortime W.1.

REPRESENTATIVES, preferably having estab connection with all types of outlets, re by well-established razor blade manufacture London and Home Counties. Write Box 4

REPRESENTATIVES required for Scherk face and tars, after-shave lotion, in Midland (Bir ham, Sheffield, Leeds, etc.), and Counties of the Thames. Commission basis. Ideal add lines. Write or phone Scherk, Ltd., 47 C Mansions, London, S.W.1. Victoria 5191.

REPRESENTATIVES required by live wh house. Must have first-class connections ar retail chemists. The positions are permanent excellent prospects for the right men. remuneration. Apply Staff Manager, Martin Ltd., Wholesale Chemist, Beresford Ave., We Middlesex. Phone Wembley 2113.

REPRESENTATIVES for three territories requi ethical pharmaceutical house with wide ran preparations calling on wholesale and retail ists only in (1) Lancs, West Riding, Che South Wales, Glos; (3) Midlands and East offer a permanent position with liberal salar penses and commission to A1 men having lished connection and long experience. Sen details to Box 4/671.

REPRESENTATIVES already calling on ch hairdressing and cosmetic trades require London area and all districts British Isles sponges on commission basis. Every support to energetic men. Write fully first instance 4/619.

REPRESENTATIVE REQUIRED for areas Derb Leicestershire, Nottinghamshire, Staffordshire, wickshire, for reputable firm of manufac chemists. Must be car owner. Write, givi details to Box 4/601.

SUGAR COATER. An opportunity occurs first-class coater with experience in all ty plain and coloured work, to take charge partment in old-established London house. giving details of age, experience and sala quired. Box 4/724.

UNQUALIFIED ASSISTANT required for ma turing department. Previous experience not tial. Reply, giving full particulars of age, ence and salary required, to The Crookes L tories, Ltd., Park Royal, N.W.10.

UNQUALIFIED LADY required for testing and works laboratory of chemical manufacturers North London. Applications with full particulars, training, experience, if any, age and salary required, to Box 4/532.

UNQUALIFIED MAN required for wholesale manufacturing chemists' veterinary work in Shrewsbury. Single, aged 25 to 35. Apply Box 4/630.

WELL-KNOWN pharmaceutical house requires salesmen, calling on Chemists. Remuneration by salary, commission and expenses. "Live" men are invited to apply, giving experience of past selling record, in detail to Box 4/780.

SITUATIONS WANTED

3/- for 18 words or less, 1d. for every additional word

RETAIL (HOME)

LADY DISPENSER, unqualified, desires post; wide experience dispensing and counter. Excellent references. Box 4/728.

STOCKTAKING, quiet and efficient workmanship, over 30 years' practical experience. Personal supervision. C. W. Playfoot, 8 Aylward Rd., Merton Park, S.W.20. Tel. Liberty 4104.

UNQUALIFIED. Long experience in all branches, accustomed to heavy insurance dispensing., presently engaged, desires change. Interview desired. Box 4/752.

UNQUALIFIED. Excellent dispenser. Experienced all branches, including costing, invoicing, buying, selling, representing. Considerable administrative ability. Dealings with drugs, chemists' sundries, medical equipment generally. Would like managerial position with chemist or drug store with view to partnership or eventual purchase. All letters answered. Accommodation for family would be required. Box 4/730.

WHOLESALE

EXPERIENCED SALESMAN and sales organiser seeks position with scope for initiative. Sales connection extensive, particularly Southern Counties. Has represented leading houses and held executive positions. Available interview any time. Box 4/758.

GENTLEMAN of good address with first class references and good business record, qualified, early 50's, seeks change, executive post or travelling, live connection with doctors in north. 20 years, well known firm of repute. Box 4/771.

IRISHMAN (experienced representative), now resident England, shortly returning to Eire, requires good agencies. Box 4/554.

MANAGER Sales/Production, 32, B.Sc., M.P.S., seeks progressive London post. Vast executive experience cosmetics, chemicals, export. Highest references. Box 4/735.

REPRESENTATIVE desires change with first-class house. Live connections chemists, stores, Co-ops., Kent, Surrey, Sussex, Hampshire. Salary, commission, expenses. Own car. Box 4/743.

REPRESENTATIVE, with good connection chemists and Co-ops., South-Eastern Counties and London, seeks change with firm of repute. Proprietaries preferred. Salary, commission, expenses basis. Box 4/721.

SALES MANAGER, wishing change, sound experience in chemists' and grocery trade, used to producing excellent steady increase in sales, also to factory and sales staff control, seeks progressive position with enterprising firm. Box 4/714.

WANTED. Suitable job for energetic man, 26, experienced in cosmetic, laboratories, unqualified. 91 Clifton Hill, N.W.8.

WAREHOUSE and dispatch. Advertiser, aged 39, of good appearance and education, 20 years' practical and administrative experience wholesale, general, food and medical, offers immediate services. Box 4/736.

APPOINTMENTS

BOLTON & DISTRICT HOSPITAL MANAGEMENT COMMITTEE

TOWNLEYS HOSPITAL, FARNWORTH, NR. BOLTON.

An ASSISTANT IN DISPENSING is required for Townleys Hospital. Preference will be given to applicants holding the Apothecaries' Hall Certificate. Previous hospital experience is not essential. The commencing salary is £270 per annum for candidates who hold the Apothecaries' Hall Certificate. The appointment is subject to the provisions of the National Health Service (Superannuation) Regulations, 1947.

Applications, giving particulars of age, qualifications and experience, together with the names of two referees, should be sent as soon as possible to the Medical Superintendent, Townleys Hospital, Farnworth, Near Bolton.

H. P. TRAVIS, Secretary.

CONNAUGHT HOSPITAL, E.17

LOCUM ASSISTANT DISPENSER required October 18th to 27th. J.N.C. Salary and Conditions. Application, stating age, qualification and experience, to be sent to R. Halton Harrison (Forest Group 11) Hospital Management Committee, Langthorne Hospital, Union Rd., E.11.

CROWN AGENTS FOR THE COLONIES

Applications from qualified candidates are invited for the following post:—

DISPENSER required by Government of St. Helena for initial tour of three years. Salary, £300 a year. Free passages. Candidates should be ex R.A.M.C., pensioners with dispenser's qualifications, and experience as storekeepers, or qualified women dispensers with experience of hospital storekeeping. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4 Millbank, London, S.W.1, quoting M/N/21786/3F on both letter and envelope.

CROWN AGENTS FOR THE COLONIES

Applications from qualified candidates are invited for the following post:—

MEDICAL STOREKEEPER AND INSPECTING PHARMACIST required by Government of Nigeria for Medical Department for initial tour of 18 to 24 months with prospect of permanency. Salary and expatriation allowance in the scale £600 rising to £1,200 a year. The selected candidate will enter the scale at a point commensurate with his age, war service, qualifications and experience. Low income tax. Outfit allowance £60. Free passages and liberal leave on full salary. Candidates, preferably not over 35 years of age, must be members of the Pharmaceutical Society of Great Britain and should have had experience of handling and controlling medical stores and hospital supplies of all descriptions. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper to the Crown Agents for the Colonies, 4 Millbank, London, S.W.1, quoting M/N/17053/3F on both letter and envelope.

EXETER & MID-DEVON HOSPITALS MANAGEMENT COMMITTEE

Royal Devon & Exeter Hospital, Exeter. Two ASSISTANT PHARMACISTS (male) required. Salary according to J.N.C. (Hospital Staffs) scale. Hospital experience preferred but not essential. The posts are subject to the National Health Service (Superannuation) Regulations. Applications with full particulars, and copies of not more than three testimonials, as soon as possible to the Secretary.

NORTHERN GROUP HOSPITAL MANAGEMENT COMMITTEE

NORTHERN HOSPITAL, WINCHMORE HILL, N.21

Required, ASSISTANT PHARMACIST, male or female, at the above hospital. Salary and conditions of service in accordance with J.N.C. Scale. Residential accommodation (if female) available subject to appropriate deductions.

Applications, stating qualifications and experience, should be sent to the Secretary, Hospital Management Committee, Royal Northern Hospital, Holloway, N.7.

KENT COUNTY COUNCIL ASSISTANT PHARMACIST

Applications are invited for the following appointment.

ASSISTANT PHARMACIST (M.P.S. or Ph.C.) (male), hospital experience preferred. Salary £370 a year by four increments of £15 and one of £20 to £450 a year. Superannuation. Medical examination necessary.

Applications, stating age, qualifications, experience and the names and addresses of two responsible persons to whom reference may be made as to professional ability, to be sent to the County Medical Officer, County Hall, Maidstone, as soon as possible.

The person appointed will, in the first instance, be employed at the County Pharmacy, County Hall, Maidstone, and transferred to the service of the Regional Hospital Board at a later date.

W. L. PLATTS,
Clerk of the County Council.

County Hall, Maidstone.
September 17, 1948.

MACCLESFIELD & DISTRICT HOSPITAL MANAGEMENT COMMITTEE (NUMBER 19 GROUP)

A vacancy occurs for a Fully Qualified Assistant Pharmacist. J.N.C. (Hospital Staff) Scale —£370 per annum rising by £15 per annum to £450 per annum.

The person appointed would work under the supervision of the Pharmacist at one Hospital, but would also be required to undertake the dispensing at another Hospital within the group in Macclesfield.

Applications to the Secretary of the Hospital Management Committee, West Park (County) General Hospital, Macclesfield, Cheshire.

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST for NORTH MIDDLESEX COUNTY HOSPITAL, Edmonton, N.18. J.N.C. (Hospital Staffs) Scale. £370 to £450 inc. Similar experience may determine commencing salary. Whole time, established, pensionable, subject to medical examination. Applications, stating age, qualifications, experience, with copies of up to three recent testimonials, to MEDICAL DIRECTOR of Hospital immediately (quoting D.591 CD). No forms.

C. W. RADCLIFFE,
Clerk of the County Council.

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST required at HAREFIELD COUNTY HOSPITAL, Harefield, Middx. J.N.C. (Hosp. Staffs) salary £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Recently qualified pharmacists eligible. Whole-time, unestablished, possible establishment, subject to medical examination. Application, stating age, qualifications, experience, with copies of up to 3 recent testimonials, to MEDICAL DIRECTOR at Hospital, IMMEDIATELY (quoting E.146 CD).

QUEEN MARY'S HOSPITAL FOR THE EAST END WEST HAM GROUP No. 9 STRATFORD, LONDON, E.15

ASSISTANT PHARMACIST required. Commencing salary depending on experience and in accordance with the J.N.C. (Hospital Staffs) Scale. Previous hospital experience not essential. Hours, 9 a.m. to 5 p.m. Saturday, 9 a.m. to 1 p.m. No Sunday or late duties. Applications with details of experience should be sent to the undersigned.

J. C. DURNAN, Chief Pharmacist.

REDHILL COUNTY HOSPITAL

EDGWARE, MIDDLESEX

REGISTERED ASSISTANT PHARMACIST required. J.N.C. (Hosp. Staffs) salary £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Whole-time, established, pensionable, subject to medical examination. Application, stating age, qualifications, experience, with copies of up to three recent testimonials, to Medical Director of Hospital immediately (quoting D.815 CD). No forms.

SHEFFIELD No. 2 HOSPITAL MANAGEMENT COMMITTEE

WHARNCLIFFE HOSPITAL, SHEFFIELD, 6
APPOINTMENT OF DISPENSING ASSISTANT

Applications are invited from suitably qualified persons for the position of Dispensing Assistant. Salary within scale according to experience—£270 to £320. The National Health Service Superannuation Regulations apply.

Applications, stating age and experience and accompanied by the names and addresses of two persons to whom reference may be made should be forwarded to the Medical Superintendent, Wharncliffe Hospital, Sheffield, 6.

(Signed) R. BRADLEY,
Secretary.

STAINES GROUP HOSPITAL MANAGEMENT COMMITTEE

REGISTERED ASSISTANT PHARMACIST required at Ashford Hospital, Ashford, Middx. Salary on J.N.C. (Hosp. Staffs) Scale, £370 x £15 to £450 p.a. inc. Similar experience will determine commencing salary. Non-resident, whole-time, pensionable, subject to medical examination and one month's notice. Post vacant now.

Application, stating age, quals. and experience, with copies of up to 3 recent testimonials, to Medical Director of Hospital immediately.

WITHINGTON HOSPITAL (ADULT GENERAL—1,479 beds), MANCHESTER, 20

Registered pharmacists are invited to apply for the appointment of ASSISTANT PHARMACIST at a salary ranging from £370 to £450. Candidates with hospital experience will be preferred, but are not essential, and in determining the commencing salary experience in the grade will be taken into account. The recommendations of the Joint Negotiating Committee (Hospital Staffs) in regard to conditions of service are applicable. Applications stating age, qualifications and experience should reach the Medical Superintendent by October 16, 1948.

AGENCIES

16 for 36 words or less, 4d. for every additional word

Why not expand your business in the fast growing and prosperous Canadian market?

The Davis & Lawrence Company, in business over 100 years, have facilities for manufacturing and finishing ready for the market, medicinal and other packaged products, and have connections in practically every hamlet, town and city in Canada.

We would consider an agency arrangement with a few high-class concerns desiring to open up or expand their business in Canada.

DAVIS & LAWRENCE COMPANY
1910 St. Antoine Street, Montreal, Quebec, CANADA

AGENTS REQUIRED for areas outside 4 Northern counties to sell attractive packed lines on a generous commission basis. Write in first instance Box 4/756.

CHEMISTS' WHOLESALERS and agents wanted all areas. Company representation being withdrawn. Well-established lines. Interested companies please write Box W.1837, Haddons', Salisbury Sq., London, E.C.4.

COMMISSION AGENTS required to sell to chemists and druggists in Wales, Yorkshire, East Anglia and Scotland, nationally advertised patented line, full sales aids including lists of customers, provided successful applicants. Agents with proved sales records and good connections should send full details of lines now carried, whether car owner, and frequency of calls, to Box No. 254, Dorland Advertising, Ltd., 18-20, Regent St., London, S.W.1.

COMMISSION ONLY. Wholesale and retail establishments in Gloucester, Wiltshire, Dorset part Somerset. Reintroduction of nationally known high quality sweetened diabetic fruit juices also old established perfumes. Car owners essential. Fullest particulars other items carried. Box 4/774.

IMPORTANT London company merchandising established packed proprietary detergent, desirous of appointing active, well-connected agents for North London, Midlands, East Anglia, Lancashire, Eastern Counties, on commission basis. Box 4/734.

MANUFACTURERS' Agents' Association (C. & D.), Bream's Bldgs., E.C.4, supplies free lists of agents to manufacturers seeking representation in all important centres. Membership available to established agents.

MIDLAND sales organisation with central premises and excellent connection, desires suitable lines from first-class houses only on commission terms. Box 4/745.

PHARMACIST, here from Australia. Represents retail buying group. Interested likely agencies. Reply giving particulars. Box 4/731.

WANTED. Agents or firm covering Great Britain or part to market, through chemists only, unique new discovery, anti-greying hair medicine in tablets. Strong appeal to women. Liberal terms. Sole agency area. Box 4/753.

AGENCIES WANTED

8/6 for 36 words or less, 3d. for every additional word

EXPERIENCED REPRESENTATIVE with established personal connection in London North of river and Middlesex, requires another agency on commission basis. Can guarantee introduction of the right line to wholesale and retail trade within short period. Box 4/727.

BUSINESS OPPORTUNITIES

17/6 for 36 words or less, 4d. for every additional word

Proprietors of a Rheumatism remedy which is having a large and widespread demand in Eire and Northern Ireland are prepared to appoint selling agents in England, Scotland, Wales. The product is reserved to Chemists and unsolicited testimonials prove that the remedy has given definite relief and has promise of enjoying a large national and overseas demand.
Apply **G. W. BUSTARD**
70 Millbank Avenue, Portstewart, Northern Ireland.

MANUFACTURING CHEMISTS have facilities and space available for the manufacture and/or packing of domestic, industrial or toilet products. Bottle, powder and tube filling. Frank Macowal, Ltd., 30 Loughborough St., S.E.11. Reliance 3435.

MANUFACTURING CHEMISTS' business in London and lease of factory (approx. 3,200 sq. ft.) can be acquired. Necessary capital £3,000. Box 4/757.

OPTICIAN/PHARMACIST. London, S.E. Accommodation available above chemist's shop in busy main road. Advantageous proposition offered to optician with pharmacy qualification. Large, 401 New Cross Rd., S.E.14. Tideway 1903.

QUALIFIED. Leaving for abroad in few weeks, will give services in exchange for accommodation for himself, wife, three children, near London preferred. Box 4/747.

WHY NOT BE A SALESMAN with our proved postal training and guaranteed appointments service which secured 1,000 salaried sales vacancies in 1947? Previous experience unnecessary with our 25 years' specialised experience to aid you. Send today for free details. Wallace Attwood College, Dept 84, Attwood House, Finchley Rd., London, N.W.3.

MISCELLANEOUS SALES

17/6 for 36 words or less, 4d. for every additional word

BOTTLES FOR SALE. Offer wanted for 165 gross 1-oz. flat and 121 gross 2-oz. barrel. New, with bakelite caps Carlou, Ltd., 54-56 Waterloo Rd., London, S.E.1. Waterloo 6050.

DRIED WHITE WILLOW BARK. For sale, several tons which are surplus to ordinary requirements resulting from heavy fall of trees this season and necessary clear storage for coming felling (November). Litchfield's, 32 Ferrers Av., West Drayton, Middlesex.

FOR SALE, the following machines, which have only been used for demonstration purposes, are almost brand new. A Pascall No. 12 size, triple-roll mill, fitted steel rolls, pulley drive: £80. A Pascall motorised pin disc mill No. 1098, fitted with groove discs. Push-button starter, receiving bin, and eleven cloth connections, 220 v., 50 cycles, a.c.: £130. A Pascall No. 2 pulley-driven triple roll mill fitted with steel rolls No. 1274: £150. Box 4/733.

STOCKTAKING FOR INCOME TAX OR SALE VALUATIONS

In addition to the normal chemist's stocktaking, I specialise in the valuation of—

Photographic Stocks & Equipment
Optical Stocks & Equipment
Fixtures & Fittings

and all items relating to Wholesale or Retail Chemist's Businesses.

DETAILED INVENTORIES SUPPLIED IF REQUIRED

Chemist's own Stock sheets Priced.

Results Available SEVEN DAYS after Valuation

Scale terms on application to—

M. H. BARNES (Licensed Appraiser)
4 CHARLWOOD ST., VICTORIA, S.W.1
Telephone: VICTORIA 5686

ENGLISH LAVENDER OIL (matured) by well-known distillers; French lavender, bergamot, geranium, petitgrain, musks (all kinds). Overstocked user would welcome offers. Hicks, 49 High St., London, S.W.4. Macaulay 4581.

GLASS JARS. One gallon, 1 in. neck, two handles, C/M, 4/- each, post free. Cash with order. Deb Chemical Proprietaries, Ltd., Spencer Rd., Belper, Derbyshire.

PANCHROMATIC FILMS for sale. A better roll film with a better profit. No fogged edges. Cleanly spooled by pre-war manufacturer; no used backings. 20/62 sizes, 24s. per doz., also 27, 20s. doz. 2s. 6d. carriage on 1 gross—4s. 6d. over. Geoffreys Studios, 10 Jamaica St., Glasgow.

SACCHARIN TABLETS (standard) packed in 100's. One hundred gross to clear at 78/- per gross. Single gross orders 1/- post extra. Write, Box 4/779.

SPEARMINT OIL, 64/9 per lb., plus carriage. 45 lbs. only. Box 4/762.

SURPLUS STOCK: Few cwts. Glycerine, B.P. and Pure Liquorice Juice Sticks, 2 oz. wrapped. Italian and Turkish brands. Also 45 gross 5 oz. Glycerine, Lemon and Honey (10% Glycerine), first-class formula and label. Best offer accepted. Box 4/767.

TRADE MARKS, suitable for pharmaceutical products for sale. Registered Class 5. Reasonable price. Box 4/725.

WHAT OFFERS? 2¾ cwts. of gum Tragacanth and 39 cwts. of Iso-Creme all in original packs. Box 4/766.

6 DRUMS TEASEED OIL, 5 Drums Pure Olive Oil, 6 Drums White Jelly, 3½ cwt. Pure Aspirin Tablets, all B.P. 5 cwts. T.P. Stearic Acid (130/32), 10 cwts. Paraffin Wax. (135/40), 4 Drums Brown Filtered Oleine. Offers to Box 4/778.

WANTED

8/6 for 36 words or less, 3d. for every additional

ASPIRIN, granular and crystals required in lots. Offers to Box 4/749.

STEARIC ACID, triple pressed, required in quantities. Box 4/2.

FOR SALE

8/6 for 36 words or less, 3d. for every additional

ONE NEW Centrac automatic tube-filling, cl and crimping machine with one set of tube ders. Motor starter for sale. Please write further information Box 4/621.

PREMISES FOR SALE

LARGE FREEHOLD FACTORY, comprising ap 8,000 sq. ft., with additional land for extens for disposal. The premises are situated ap 30 miles from London on main railway line. La is available in the area. The price asked is £1 but a near offer might be accepted. Please in first instance to Box 4/616.

PREMISES TO LET

LARGE FACTORY TO LET to suitable tenants long lease The premises are approx. 30 miles London with very good accessibility to Lo Labour is available in the area. The rental is £850 per year. Only genuine enquiries, p Box 4/615.

PATENTS

THE PROPRIETORS of British Patent No. 5 relating to "Improvement in moth proofing tion" are desirous of entering into arrange by way of licence or otherwise on reasonable for the purpose of exploiting the invention ensuring its full development and practical ing in this country. All communications shou addressed to H. D. Fitzpatrick & Co., 94 St., Glasgow, C.2, and 27 Chancery Ln., Lo W.C.2.

PARTNERSHIPS

QUALIFIED PARTNER wanted with £1,000 to full charge new dispensary in Clapham. No a modation. Box 4/755.

TENDERS

CITY AND COUNTY OF BRISTOL

The Health Committee invite quotation supply of the following goods for the City Hos Sanatoria, Health Centres, etc., for the six m **commencing 1st November, 1948.**

Essential Drugs and Chemicals.
Medical Sundries.

Forms of tender obtained from the undersi and should be returned in plain sealed envelop later than 10 a.m. on 18th October, 1948, s scribed to show goods tendered for, but withou name or mark indicating the sender. Contr required observe fair wages clauses of the Co and tenderers must state whether they are o King's Roll.

Lowest or any tender not necessarily accep

R. H. PARRY
Medical Officer of He

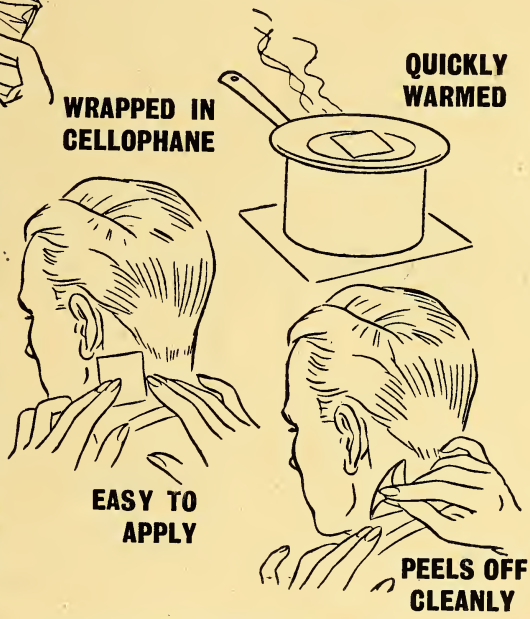
Kenwith Lodge,
Westbury Park,
Bristol, 6.

Printed by THE HAYCOCK PRESS, LTD., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors, MORGAN BROTHERS (PUBLISHERS), LIMITED, at 28 Essex Street, Strand, London, W.C.2.

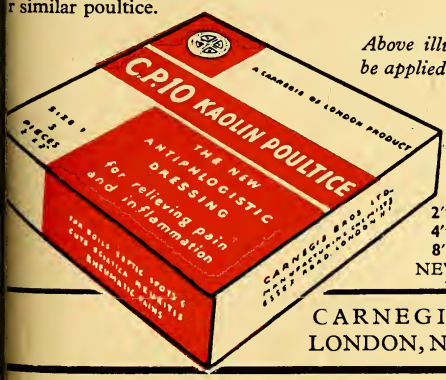
C.P.10 *Antiphlogistic Kaolin Poultice*

ALREADY SPREAD

C.P.10 provides a clean and easy, time-and-trouble saving method of applying prolonged antiseptic, moist heat to any part of the body. **C.P.10** is ALREADY SPREAD and simply requires warming before use. It employs the use of thymol with essential oils and the penetrating power of glycerine. The incorporation of magnesium sulphate combines the value of kaolin poultice with that of Mag. Sulphate Paste, both of which **C.P.10** is intended to replace. **C.P.10** is sterilized during processing and it cannot function as a culture medium. Because of its carefully balanced formula **C.P.10** is uniformly successful, producing far more consistent results than kaolin or similar poultice.



Above illustrations show the ease with which **C.P.10** *may be applied and removed, either by the patient or nurse.*



SIZE	TRADE (per dozen)	PURCHASE TAX	RETAIL (per carton)
2″ x 2″ (3 pieces)	6/-	2/-	11d.
4″ x 3″ (3 pieces)	12/-	4/-	1/10d.
8″ x 6″ (1 piece)	15/-	5/-	2/3½d.

NEW ACCOUNTS: Minimum Composite Order 35/-

CARNEGIE BROS. LTD., ESSEX ROAD, LONDON, N.1. *Telephone:* CLISSOLD 4761 (4 lines)

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OCTOBER 2, 1948